

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1260	(546/226).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:26
L2	1014881	I1 and 1,2-di(cyclic)substituted	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:27
L3	0	I1 and 1,2-dicyclic adj substituted adj benzene	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:28
L4	0	I1 and 1,2-dicyclic	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:28
L5	0	I1 and dicyclic adj substituted adj benzene	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:30
L6	0	I1 and dicyclic and substituted and benzene	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:43
L7	0	I1 and dicyclic and cyclo! and (piperazin! or piperidin!)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:44
L8	22	I1 and cyclo! and (piperazin! or piperidin!)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:44
L9	2	I1 and cyclo!.clm. and (piperazin! or piperidin!).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:45
L10	498	(546/221).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:45
L11	0	I10 and cyclo!.clm. and (piperazin! or piperidin!).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:46
L12	14	I10 and cyclo! and (piperazin! or piperidin!)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:46
L13	2	I10 and cyclo!.clm. and (piperazin! or piperidin!)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:47
L14	477	(546/225).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:47
L15	1	I14 and cyclo!.clm. and (piperazin! or piperidin!).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:47

EAST Search History

L16	160	(546/228).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:48
L17	1	I16 and cyclo!.clm. and (piperazin! or piperidin!).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:48
L18	544	(544/392).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:48
L19	1	I18 and cyclo!.clm. and (piperazin! or piperidin!).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:49
L20	217	(544/395).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:49
L21	0	I20 and cyclo!.clm. and (piperazin! or piperidin!).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:49
L22	1	I20 and cyclo! and (piperazin! or piperidin!).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:50
L23	581	(514/255.03).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:50
L24	4	I23 and cyclo!.clm. and (piperazin! or piperidin!).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:51
L25	2284	(514/317).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:51
L26	23	I25 and cyclo!.clm. and (piperazin! or piperidin!).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:51
L27	0	I25 and cyclo!.clm. and (piperazin! or piperidin!).clm. and dicyclic	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:52
L28	0	I25 and cyclo!.clm. and (piperazin! or piperidin!).clm. and di-cyclic	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:52
L29	0	I25 and cyclo! and (piperazin! or piperidin!).clm. and di-cyclic	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:52
L30	0	I25 and cyclo! and (piperazin! or piperidin!) and di-cyclic	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:52

EAST Search History

L31	7	I25 and cyclo!.clm. and (piperazin! and piperidin!).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/28 12:53
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Connecting via Winsock to STN

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * Welcome to STN International * * * * * * * * *

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NEWS 4 DEC 18 CA/CAplus patent kind codes updated
NEWS 5 DEC 18 MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 6 DEC 18 MEDLINE updated in preparation for 2007 reload
NEWS 7 DEC 27 CA/CAplus enhanced with more pre-1907 records
NEWS 8 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 9 JAN 16 CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 10 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 11 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 12 JAN 22 CA/CAplus updated with revised CAS roles
NEWS 13 JAN 22 CA/CAplus enhanced with patent applications from India
NEWS 14 JAN 29 PHAR reloaded with new search and display fields
NEWS 15 JAN 29 CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 16 FEB 15 PATDPASPC enhanced with Drug Approval numbers
NEWS 17 FEB 15 RUSSIAPAT enhanced with pre-1994 records
NEWS 18 FEB 23 KOREAPAT enhanced with IPC 8 features and functionality
NEWS 19 FEB 26 MEDLINE reloaded with enhancements
NEWS 20 FEB 26 EMBASE enhanced with Clinical Trial Number field
NEWS 21 FEB 26 TOXCENTER enhanced with reloaded MEDLINE
NEWS 22 FEB 26 IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 23 FEB 26 CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 24 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 25 MAR 16 CASREACT coverage extended
NEWS 26 MAR 20 MARPAT now updated daily
NEWS 27 MAR 22 LWPI reloaded

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?

Choice (Y/n) :

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:58:03 ON 28 MAR 2007
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<http://www.cas.org/ONLINE/UG/reqprops.html>

=>
Uploading C:\Program Files\Stnexp\Queries\new10581591.str

L1 STRUCTURE UPLOADED

=> S 11

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SAMPLE SEARCH INITIATED 10:58:19 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 592574 TO ITERATE

0.3% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 11808425 TO 11894535
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.45 0.66

FILE 'REGISTRY' ENTERED AT 10:58:24 ON 28 MAR 2007
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conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>
Uploading C:\Program Files\Stnexp\Queries\new10581591.str

L3 STRUCTURE UPLOADED

=> s 13
SAMPLE SEARCH INITIATED 10:58:45 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 592574 TO ITERATE

0.3% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.02

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**

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PROJECTED ITERATIONS: 11808425 TO 11894535
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> s 13 full
FULL SEARCH INITIATED 10:58:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 11844599 TO ITERATE

2.8% PROCESSED	328261 ITERATIONS	5 ANSWERS
5.9% PROCESSED	696865 ITERATIONS	199 ANSWERS
7.5% PROCESSED	888826 ITERATIONS	203 ANSWERS
8.4% PROCESSED	1000000 ITERATIONS	203 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)		
SEARCH TIME: 00.00.59		

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 11844599 TO 11844599
PROJECTED ANSWERS: 2257 TO 2551

L5 203 SEA SSS FUL L3

=> file caplus		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		173.00	173.66

FILE 'CAPLUS' ENTERED AT 11:00:18 ON 28 MAR 2007
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FILE COVERS 1907 - 28 Mar 2007 VOL 146 ISS 14
FILE LAST UPDATED: 27 Mar 2007 (20070327/ED)

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=> s 15
L6 5 L5

=> s 15 full

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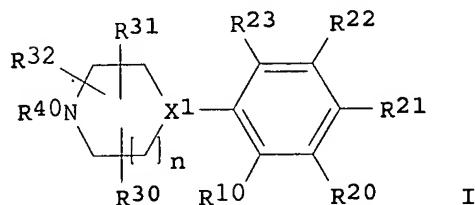
L7 5 L5

=> d ibib abs hitstr tot

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1280877 CAPLUS
DOCUMENT NUMBER: 146:45540
TITLE: Preparation of 1,2-di(cyclic) substituted benzene compounds as cell adhesion and cell infiltration inhibitors
INVENTOR(S): Kawahara, Tetsuya; Kotake, Makoto; Yoneda, Naoki; Hirota, Shinsuke; Ohkuro, Masayoshi
PATENT ASSIGNEE(S): Eisai R&D Management Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 313pp., Cont.-in-part of U.S. Ser. No. 453,194.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006276465	A1	20061207	US 2006-474225	20060623
US 2005261291	A1	20051124	US 2004-22702	20041227
US 2006281747	A1	20061214	US 2006-453194	20060614
WO 2006134955	A1	20061221	WO 2006-JP311900	20060614
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			JP 2003-434312	A 20031226
			JP 2003-435050	A 20031226
			US 2004-22702	A2 20041227
			JP 2005-174072	A 20050614
			US 2006-453194	A2 20060614

OTHER SOURCE(S): MARPAT 146:45540
GI



AB The title compds. I [R10 = (un)substituted 5-10 membered cycloalkyl or

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5-10 membered cycloalkenyl; R20-R23 = H, OH, halo, CN, etc.; R30-R32 = H, OH, halo, alkyl, etc.; or two of R30, R31 and R32 bond together to form oxo or methylene and the other represents H, OH, halo, etc.; R40 = (un)substituted alkyl, cycloalkyl, 4-8 membered heterocyclyl, etc.; n = 0-2; X1 = CH or N], were prepared Thus, 1-[2-(4,4-dimethylcyclohexyl)-5-methoxyphenyl]-4-pentylpiperazine hydrochloride was prepared in a multistep process starting with 4,4-dimethylcyclohexanone. In an in vitro test for cell adhesion inhibiting activity using Jurkat cells, compds. of this invention showed IC₅₀ values of 2.2 μM to 7.7 μM.

IT 916315-26-9P 916315-28-1P 916315-35-0P
916315-36-1P 916315-37-2P 916315-41-8P
916315-42-9P 916315-43-0P 916315-44-1P
916315-45-2P 916315-48-5P 916315-49-6P
916315-50-9P 916315-51-0P 916315-68-9P
916315-69-0P 916315-70-3P 916315-71-4P
916315-72-5P 916315-73-6P 916315-82-7P
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916316-04-6P 916316-05-7P 916316-06-8P
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916316-10-4P 916316-13-7P 916316-15-9P
916316-23-9P 916316-25-1P 916316-27-3P
916316-29-5P 916316-31-9P 916316-33-1P
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916316-89-7P 916316-91-1P 916316-94-4P
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916316-98-8P 916317-03-8P 916317-05-0P
916317-32-3P 916317-33-4P 916317-39-0P
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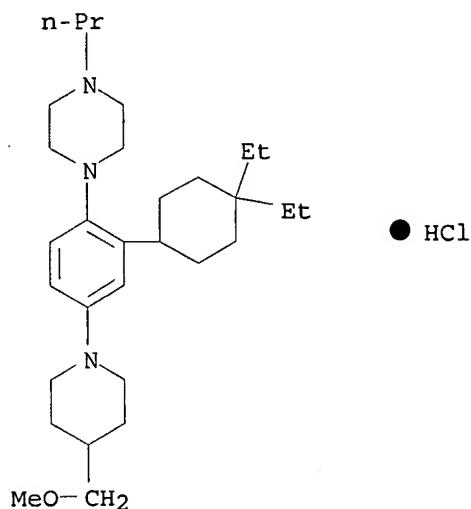
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1,2-di(cyclic) substituted benzene compds. as cell adhesion and cell infiltration inhibitors)

RN 916315-26-9 CAPLUS

CN Piperazine, 1-[2-(4,4-diethylcyclohexyl)-4-[4-(methoxymethyl)-1-piperidinyl]phenyl]-4-propyl-, hydrochloride (1:1) (CA INDEX NAME)

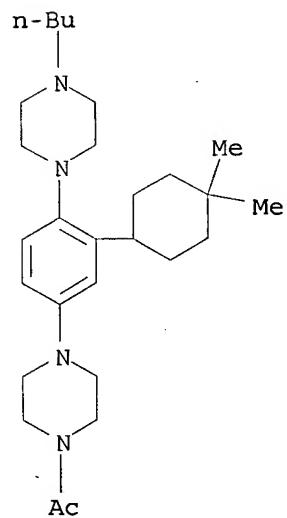
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● HCl

RN 916315-28-1 CAPLUS

CN Ethanone, 1-[4-[4-(4-butyl-1-piperazinyl)-3-(4,4-dimethylcyclohexyl)phenyl]-1-piperazinyl]-, hydrochloride (1:1) (CA INDEX NAME)

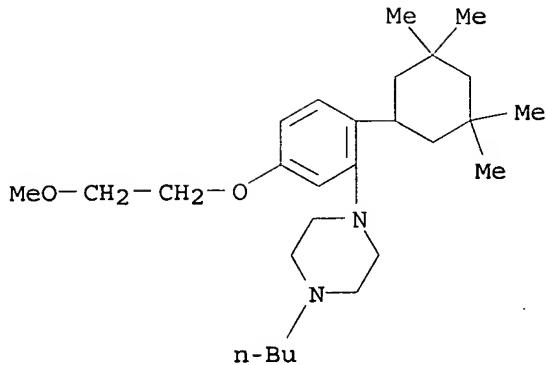


● HCl

RN 916315-35-0 CAPLUS

CN Piperazine, 1-butyl-4-[5-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

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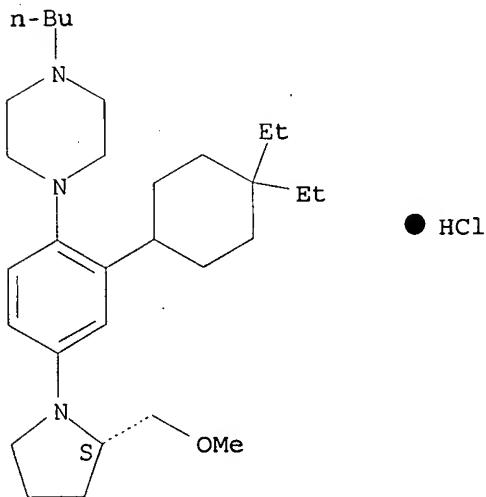


● HCl

RN 916315-36-1 CAPLUS

CN Piperazine, 1-butyl-4-[2-(4,4-diethylcyclohexyl)-4-[(2S)-2-(methoxymethyl)-1-pyrrolidinyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

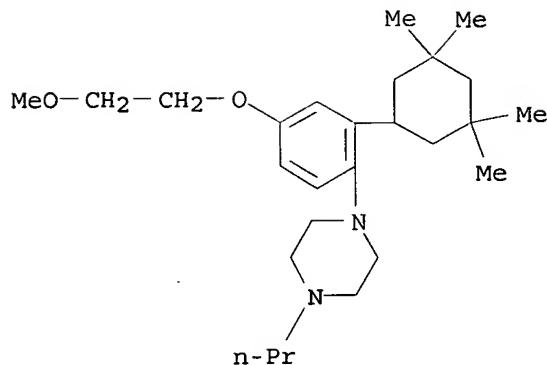
Absolute stereochemistry.



RN 916315-37-2 CAPLUS

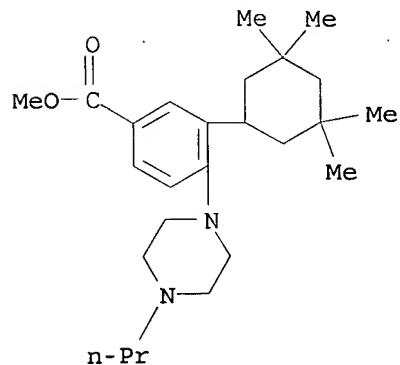
CN Piperazine, 1-[4-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-4-propyl-, hydrochloride (1:1) (CA INDEX NAME)

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● HCl

RN 916315-41-8 CAPLUS
CN Benzoic acid, 4-(4-propyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)-
, methyl ester, hydrochloride (1:1) (CA INDEX NAME)

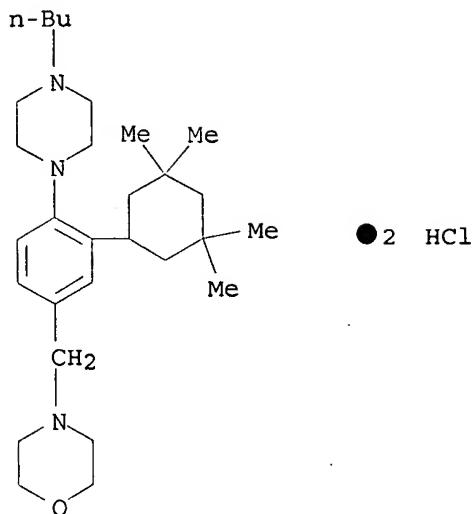


● HCl

RN 916315-42-9 CAPLUS
CN Morpholine, 4-[4-(4-butyl-1-piperazinyl)-3-(3,3,5,5-
tetramethylcyclohexyl)phenyl]methyl-, hydrochloride (1:2) (CA INDEX
NAME)

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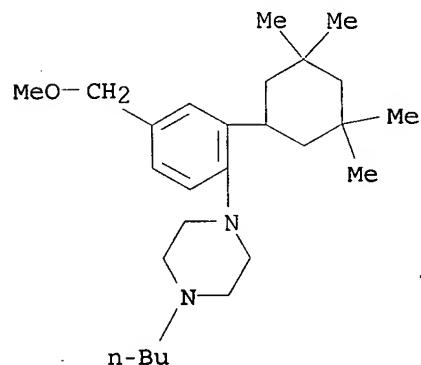
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● 2 HCl

RN 916315-43-0 CAPLUS

CN Piperazine, 1-butyl-4-[4-(methoxymethyl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

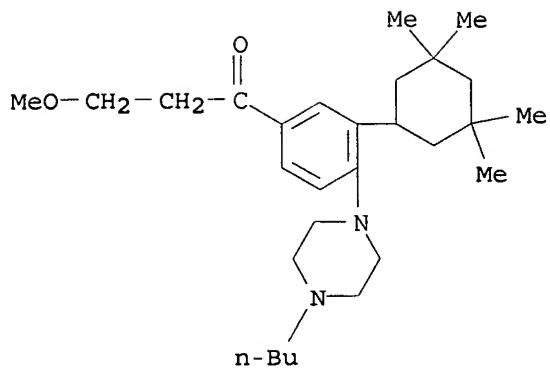


● HCl

RN 916315-44-1 CAPLUS

CN 1-Propanone, 1-[4-(4-butyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)phenyl]-3-methoxy-, hydrochloride (1:1) (CA INDEX NAME)

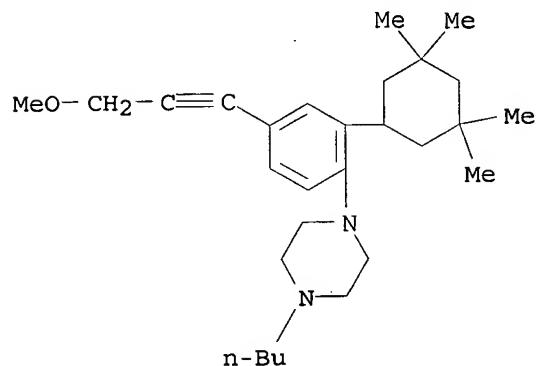
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● HCl

RN 916315-45-2 CAPLUS

CN Piperazine, 1-butyl-4-[4-(3-methoxy-1-propyn-1-yl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

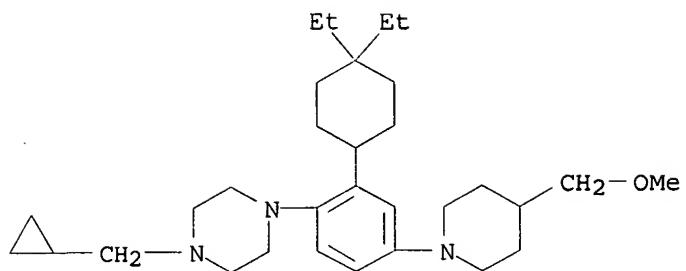


● HCl

RN 916315-48-5 CAPLUS

CN Piperazine, 1-(cyclopropylmethyl)-4-[2-(4,4-diethylcyclohexyl)-4-(methoxymethyl)-1-piperidinyl]phenyl-, hydrochloride (1:1) (CA INDEX NAME)

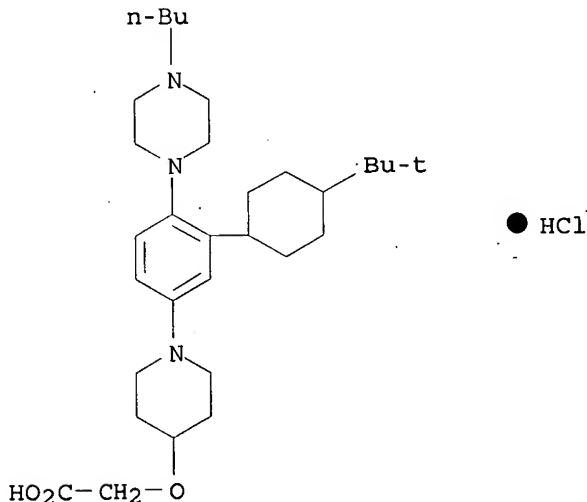
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● HCl

RN 916315-49-6 CAPLUS

CN Acetic acid, 2-[[1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-4-piperidinyl]oxy]-, hydrochloride (1:1)
(CA INDEX NAME)

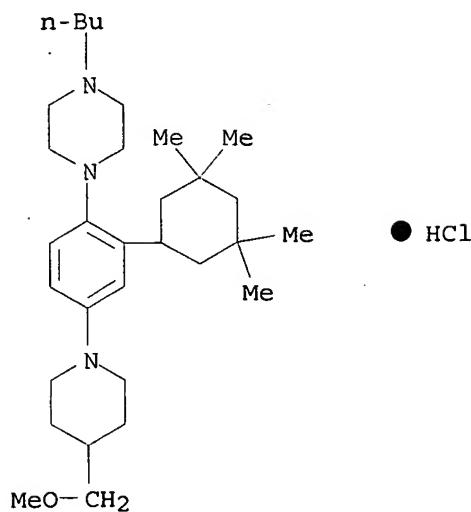


● HCl

RN 916315-50-9 CAPLUS

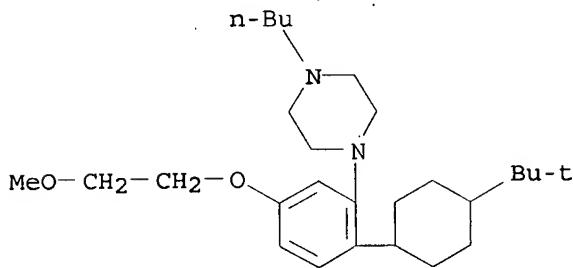
CN Piperazine, 1-butyl-4-[4-[4-(methoxymethyl)-1-piperidinyl]-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

50613257



RN 916315-51-0 CAPLUS

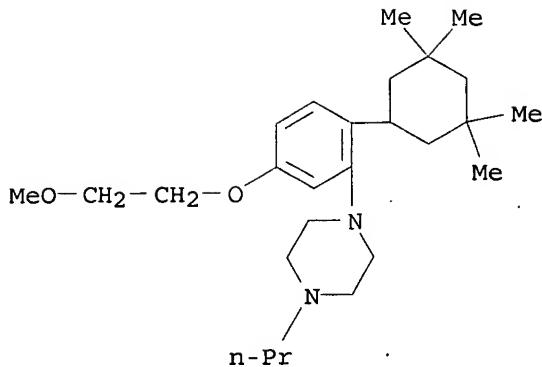
CN Piperazine, 1-butyl-4-[2-[4-(1,1-dimethylethyl)cyclohexyl]-5-(2-methoxyethoxy)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)



RN 916315-68-9 CAPLUS

CN Piperazine, 1-[5-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-4-propyl-, hydrochloride (1:1) (CA INDEX NAME)

50613257

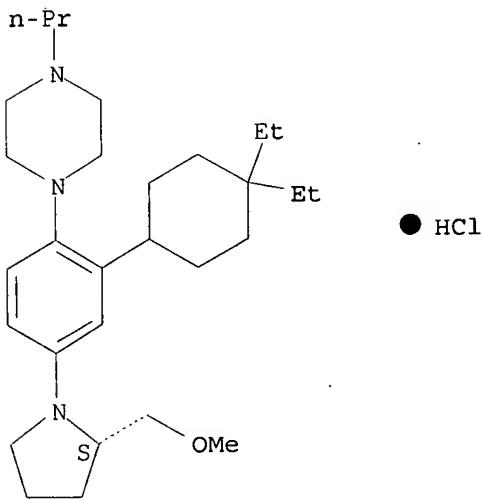


● HCl

RN 916315-69-0 CAPLUS

CN Piperazine, 1-[2-(4,4-diethylcyclohexyl)-4-[(2S)-2-(methoxymethyl)-1-pyrrolidinyl]phenyl]-4-propyl-, hydrochloride (1:1) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

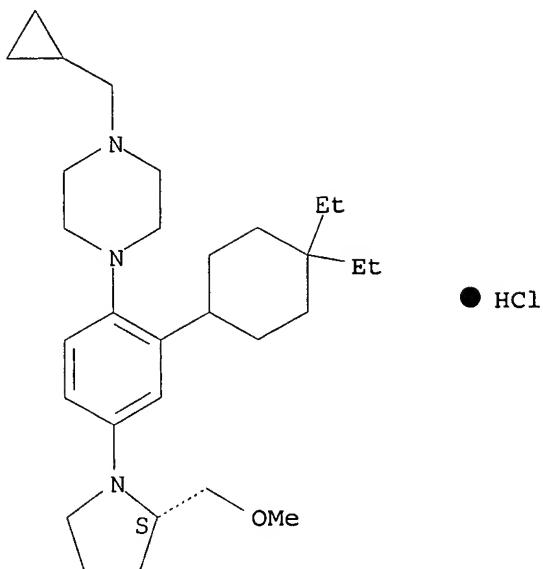
RN 916315-70-3 CAPLUS

CN Piperazine, 1-(cyclopropylmethyl)-4-[2-(4,4-diethylcyclohexyl)-4-[(2S)-2-(methoxymethyl)-1-pyrrolidinyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

Absolute stereochemistry.

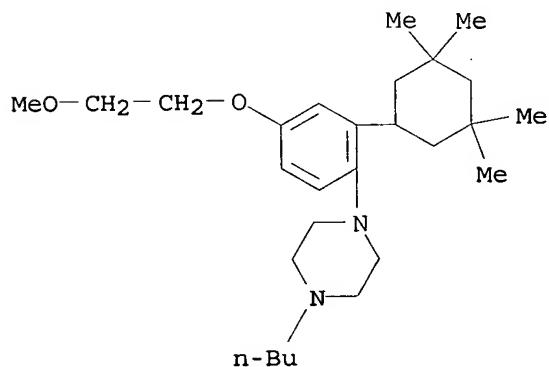
Erich Leeser

50613257



RN 916315-71-4 CAPLUS

CN Piperazine, 1-butyl-4-[4-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

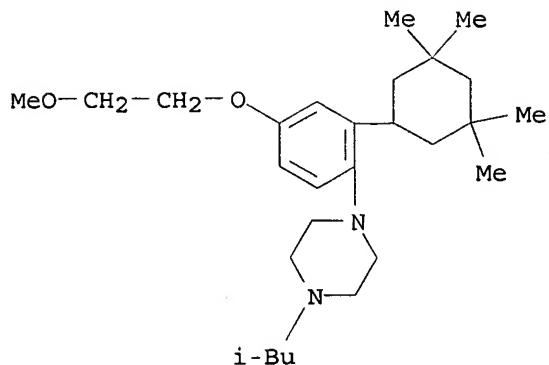


● HCl

RN 916315-72-5 CAPLUS

CN Piperazine, 1-[4-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-4-(2-methylpropyl)-, hydrochloride (1:1) (CA INDEX NAME)

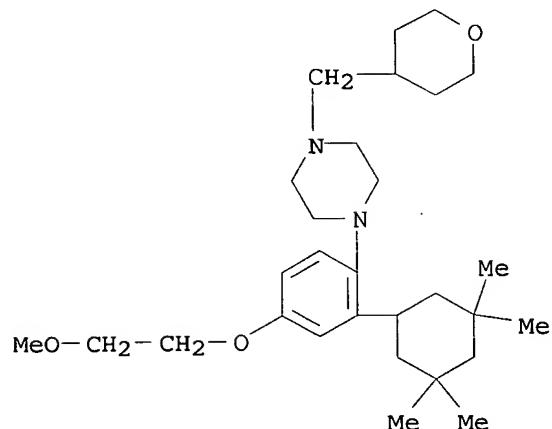
50613257



● HCl

RN 916315-73-6 CAPLUS

CN Piperazine, 1-[4-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-4-[(tetrahydro-2H-pyran-4-yl)methyl]-, hydrochloride (1:1) (CA INDEX NAME)



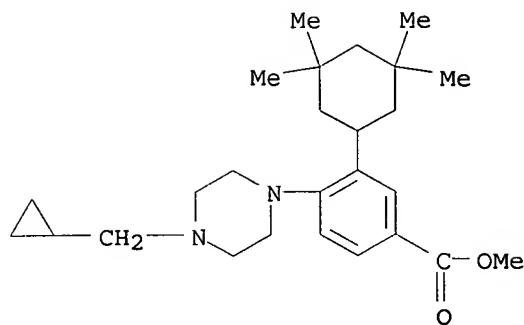
● HCl

RN 916315-82-7 CAPLUS

CN Benzoic acid, 4-[4-(cyclopropylmethyl)-1-piperazinyl]-3-(3,3,5,5-tetramethylcyclohexyl)-, methyl ester, hydrochloride (1:1) (CA INDEX NAME)

Erich Leeser

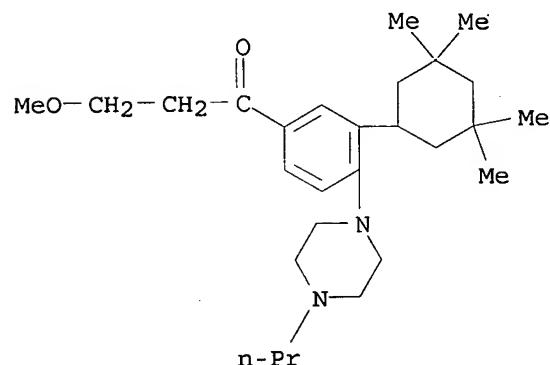
50613257



● HCl

RN 916315-83-8 CAPLUS

CN 1-Propanone, 3-methoxy-1-[4-(4-propyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

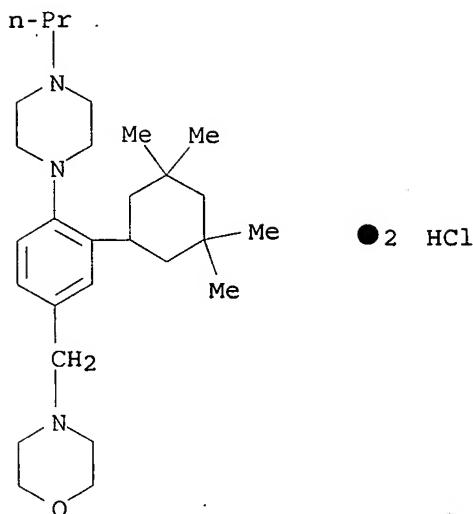


● HCl

RN 916315-84-9 CAPLUS

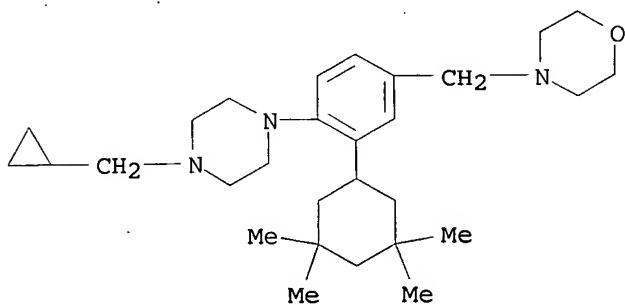
CN Morpholine, 4-[(4-(4-propyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)phenyl)methyl]-, hydrochloride (1:2) (CA INDEX NAME)

50613257



RN 916315-85-0 CAPLUS

CN Morpholine, 4-[4-[4-(cyclopropylmethyl)-1-piperazinyl]-3-(3,3,5,5-tetramethylcyclohexyl)phenyl]methyl-, hydrochloride (1:2) (CA INDEX NAME)

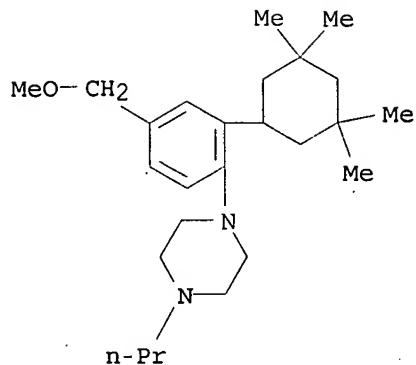


● 2 HCl

RN 916315-86-1 CAPLUS

CN Piperazine, 1-[4-(methoxymethyl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-4-propyl-, hydrochloride (1:1) (CA INDEX NAME)

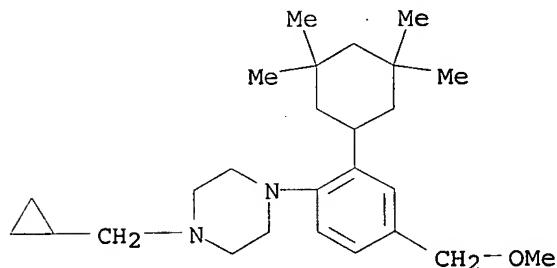
50613257



● HCl

RN 916315-87-2 CAPLUS

CN Piperazine, 1-(cyclopropylmethyl)-4-[4-(methoxymethyl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

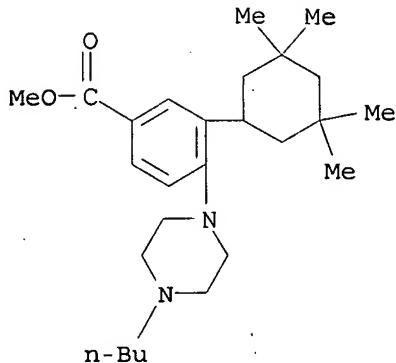


● HCl

RN 916315-88-3 CAPLUS

CN Benzoic acid, 4-(4-butyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)-, methyl ester, hydrochloride (1:1) (CA INDEX NAME)

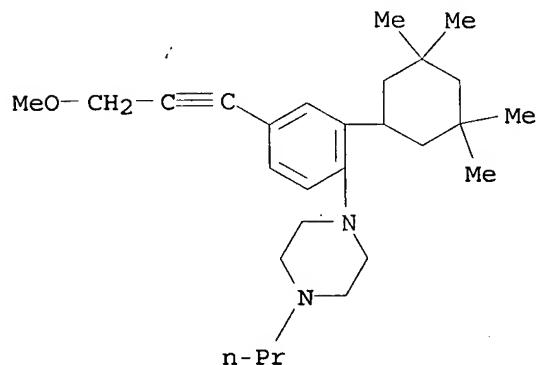
50613257



● HCl

RN 916315-89-4 CAPLUS

CN Piperazine, 1-[4-(3-methoxy-1-propyn-1-yl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-4-propyl-, hydrochloride (1:1) (CA INDEX NAME)



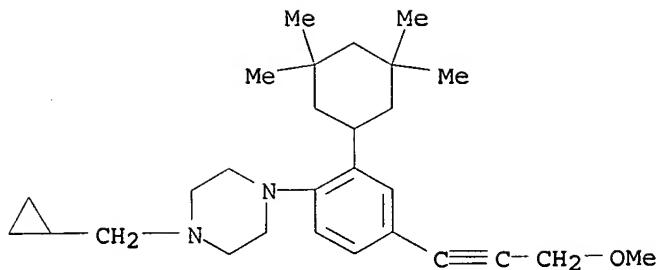
● HCl

RN 916315-90-7 CAPLUS

CN Piperazine, 1-(cyclopropylmethyl)-4-[4-(3-methoxy-1-propyn-1-yl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

Erich Leeser

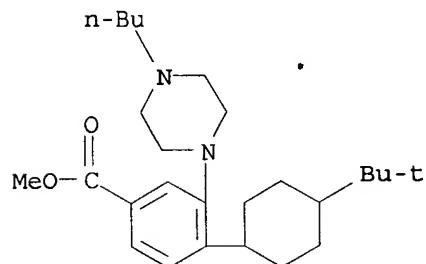
50613257



● HCl

RN 916315-91-8 CAPLUS

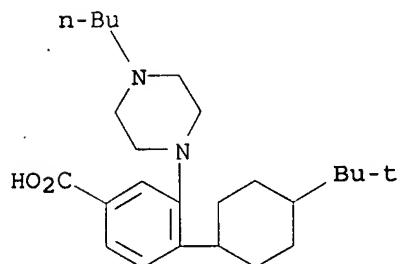
CN Benzoic acid, 3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]-, methyl ester, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 916315-92-9 CAPLUS

CN Benzoic acid, 3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]- (CA INDEX NAME)

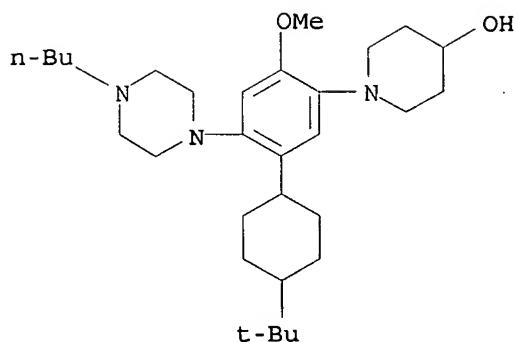


RN 916315-93-0 CAPLUS

CN 4-Piperidinol, 1-[4-(4-butyl-1-piperazinyl)-5-[4-(1,1-dimethylethyl)cyclohexyl]-2-methoxyphenyl]-, hydrochloride (1:1) (CA INDEX NAME)

Erich Leeser

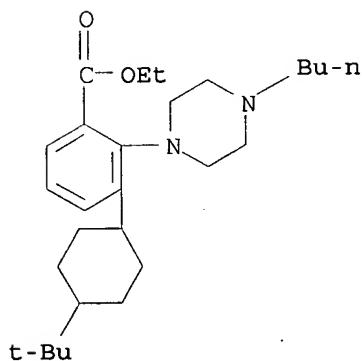
50613257



● HCl

RN 916315-94-1 CAPLUS

CN Benzoic acid, 2-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]-, ethyl ester, hydrochloride (1:1) (CA INDEX NAME)



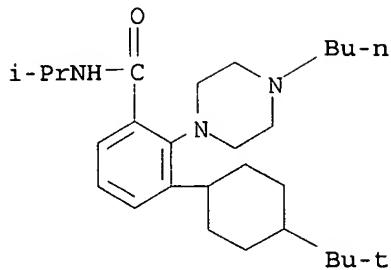
● HCl

RN 916315-95-2 CAPLUS

CN Benzamide, 2-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]-N-(1-methylethyl)-, hydrochloride (1:1) (CA INDEX NAME)

Erich Leeser

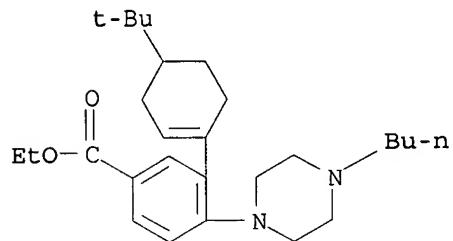
50613257



● HCl

RN 916315-96-3 CAPLUS

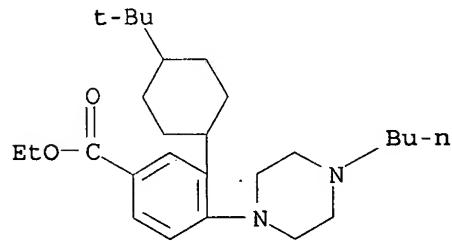
CN Benzoic acid, 4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)-1-cyclohexen-1-yl]-, ethyl ester, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 916315-97-4 CAPLUS

CN Benzoic acid, 4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]-, ethyl ester, hydrochloride (1:1) (CA INDEX NAME)



● HCl

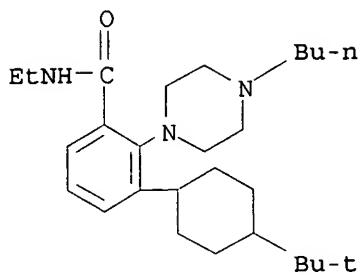
RN 916316-01-3 CAPLUS

CN Benzamide, 2-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]-N-

Erich Leeser

50613257

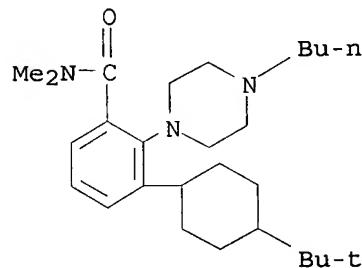
ethyl-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 916316-02-4 CAPLUS

CN Benzamide, 2-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]-N,N-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)

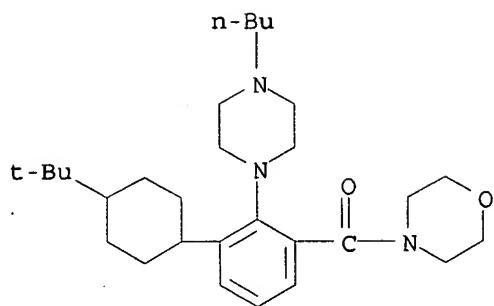


● HCl

RN 916316-03-5 CAPLUS

CN Methanone, [2-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-4-morpholinyl-, hydrochloride (1:1) (CA INDEX NAME)

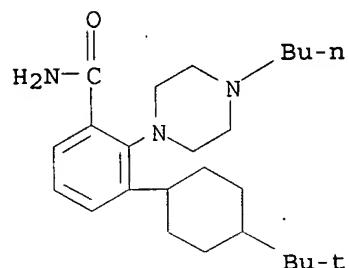
50613257



● HCl

RN 916316-04-6 CAPLUS

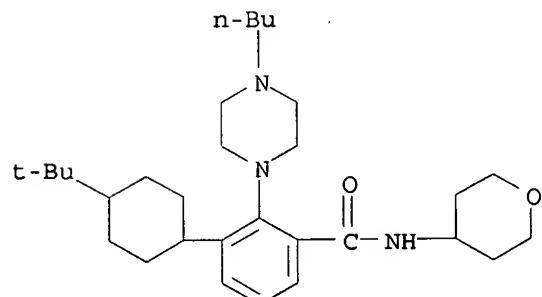
CN Benzamide, 2-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 916316-05-7 CAPLUS

CN Benzamide, 2-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]-N-(tetrahydro-2H-pyran-4-yl)-, hydrochloride (1:1) (CA INDEX NAME)

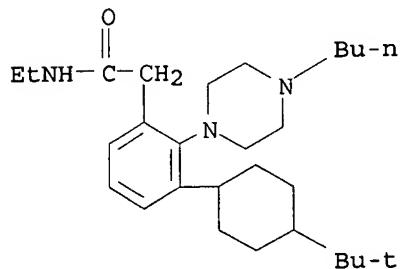


● HCl

Erich Leeser

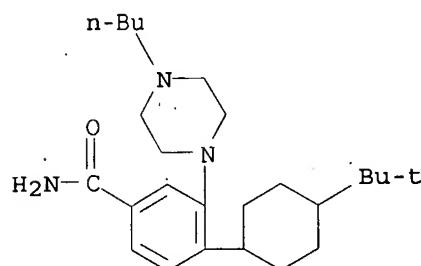
50613257

RN 916316-06-8 CAPLUS
CN Benzeneacetamide, 2-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]-N-ethyl-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

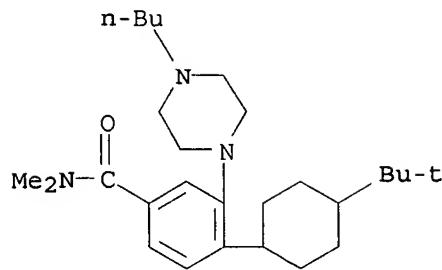
RN 916316-07-9 CAPLUS
CN Benzamide, 3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 916316-08-0 CAPLUS
CN Benzamide, 3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]-N,N-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)

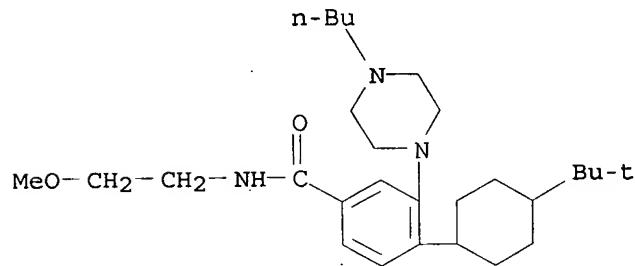
50613257



● HCl

RN 916316-09-1 CAPLUS

CN Benzamide, 3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]-N-(2-methoxyethyl)-, hydrochloride (1:1) (CA INDEX NAME)

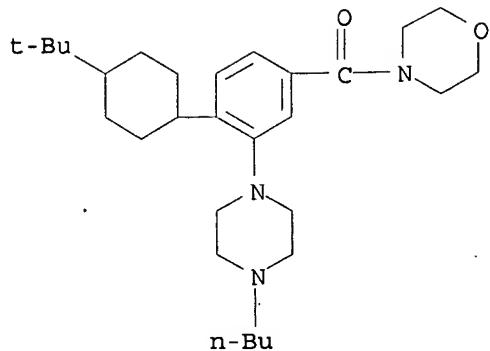


● HCl

RN 916316-10-4 CAPLUS

CN Methanone, [3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-4-morpholinyl-, hydrochloride (1:1) (CA INDEX NAME)

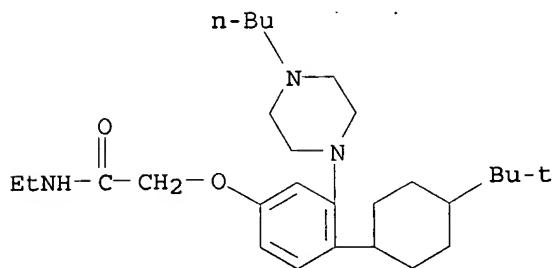
50613257



● HCl

RN 916316-13-7 CAPLUS

CN Acetamide, 2-[3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]phenoxy]-N-ethyl-, hydrochloride (1:1) (CA INDEX NAME)

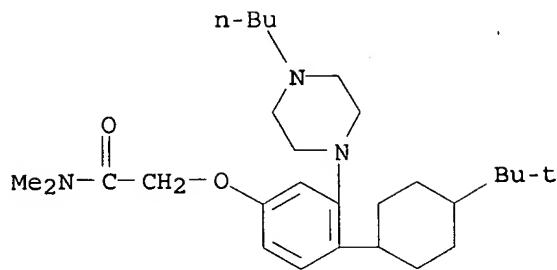


● HCl

RN 916316-15-9 CAPLUS

CN Acetamide, 2-[3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]phenoxy]-N,N-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)

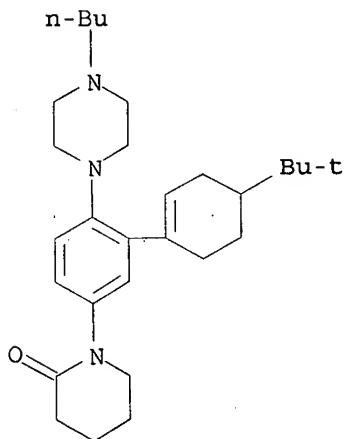
50613257



● HCl

RN 916316-23-9 CAPLUS

CN 2-Piperidinone, 1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)-1-cyclohexen-1-yl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

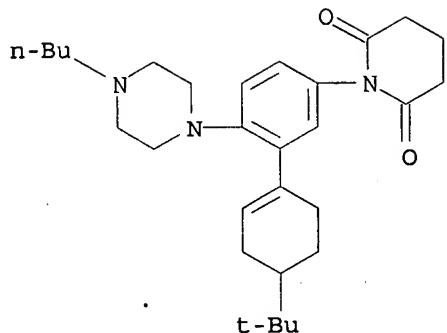


● HCl

RN 916316-25-1 CAPLUS

CN 2,6-Piperidinedione, 1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)-1-cyclohexen-1-yl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

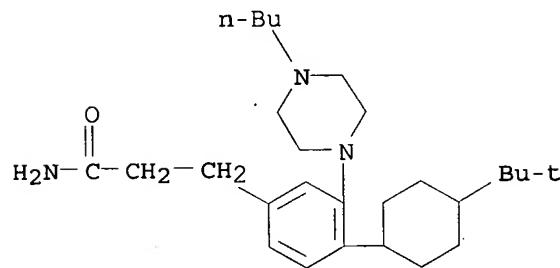
50613257



● HCl

RN 916316-27-3 CAPLUS

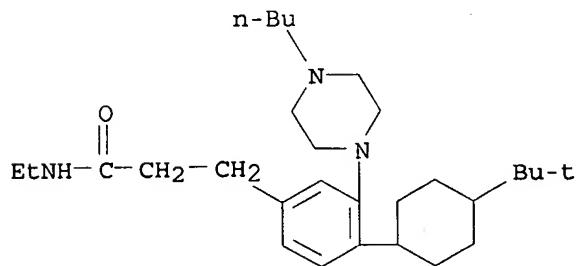
CN Benzenepropanamide, 3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 916316-29-5 CAPLUS

CN Benzenepropanamide, 3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]-N-ethyl-, hydrochloride (1:1) (CA INDEX NAME)



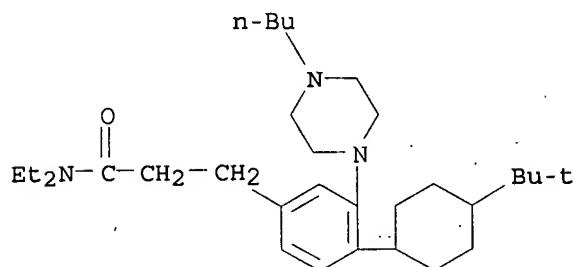
● HCl

Erich Leeser

50613257

RN 916316-31-9 CAPLUS

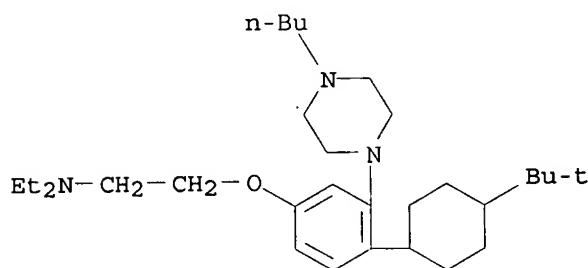
CN Benzenepropanamide, 3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]-N,N-diethyl-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 916316-33-1 CAPLUS

CN Ethanamine, 2-[3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]phenoxy]-N,N-diethyl-, hydrochloride (1:2) (CA INDEX NAME)

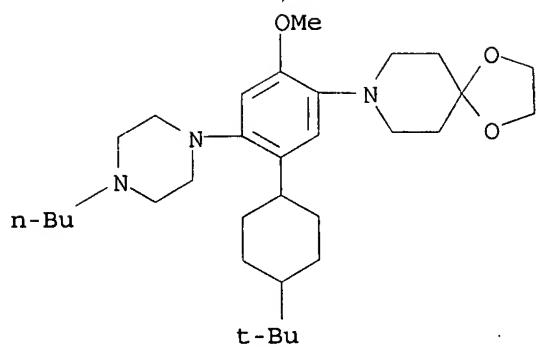


● 2 HCl

RN 916316-35-3 CAPLUS

CN 1,4-Dioxa-8-azaspiro[4.5]decane, 8-[4-(4-butyl-1-piperazinyl)-5-[4-(1,1-dimethylethyl)cyclohexyl]-2-methoxyphenyl]-, hydrochloride (1:1) (CA INDEX NAME)

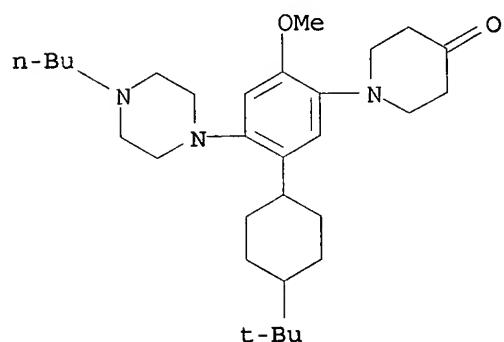
50613257



● HCl

RN 916316-37-5 CAPLUS

CN 4-Piperidinone, 1-[4-(4-butyl-1-piperazinyl)-5-[4-(1,1-dimethylethyl)cyclohexyl]-2-methoxyphenyl]-, hydrochloride (1:1) (CA INDEX NAME)

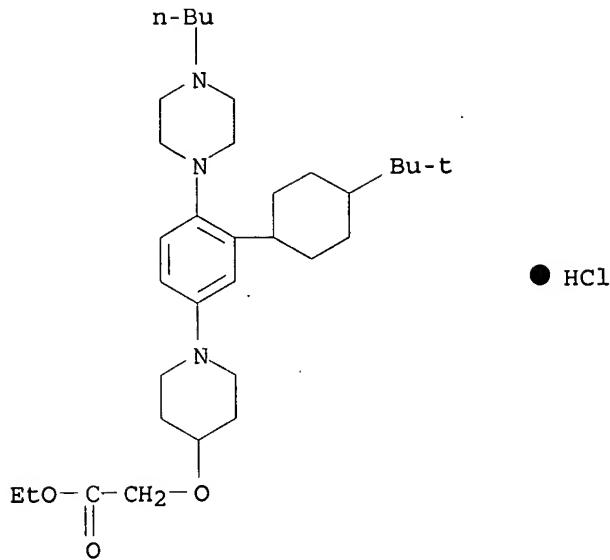


● HCl

RN 916316-39-7 CAPLUS

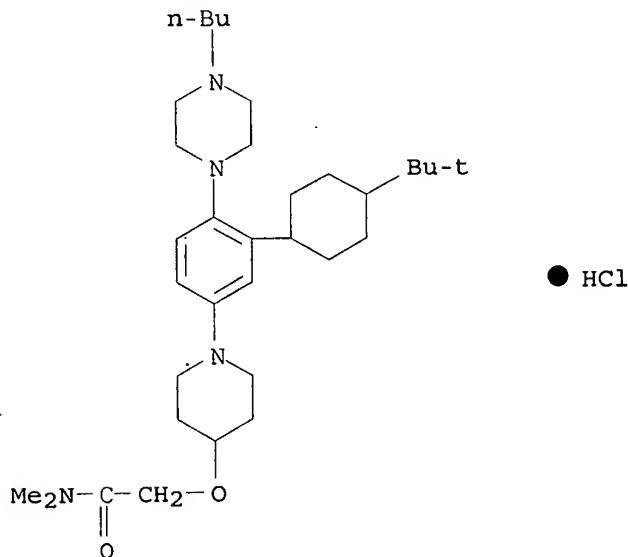
CN Acetic acid, 2-[[1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-4-piperidinyl]oxy]-, ethyl ester, hydrochloride (1:1) (CA INDEX NAME)

50613257



RN 916316-45-5 CAPLUS

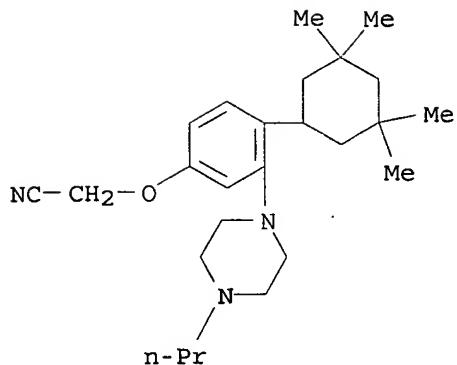
CN Acetamide, 2-[[1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-4-piperidinyl]oxy]-N,N-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)



RN 916316-47-7 CAPLUS

CN Acetonitrile, 2-[3-(4-propyl-1-piperazinyl)-4-(3,3,5,5-tetramethylcyclohexyl)phenoxy]-, hydrochloride (1:1) (CA INDEX NAME)

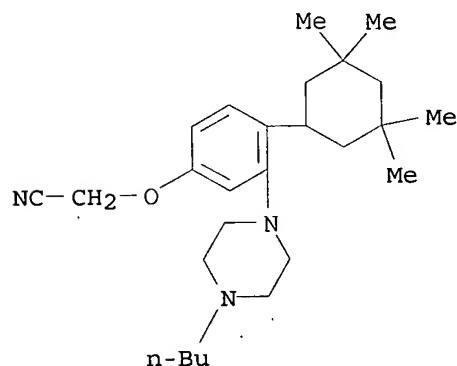
50613257



● HCl

RN 916316-49-9 CAPLUS

CN Acetonitrile, 2-[3-(4-butyl-1-piperazinyl)-4-(3,3,5,5-tetramethylcyclohexyl)phenoxy]-, hydrochloride (1:1). (CA INDEX NAME)

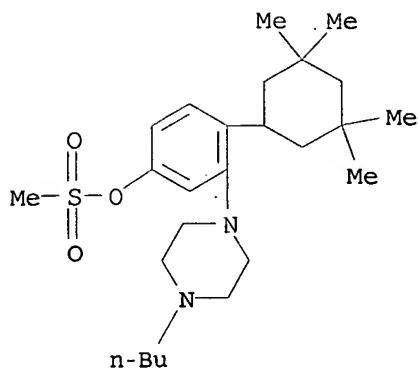


● HCl

RN 916316-51-3 CAPLUS

CN Phenol, 3-(4-butyl-1-piperazinyl)-4-(3,3,5,5-tetramethylcyclohexyl)-, 1-methanesulfonate, hydrochloride (1:1) (CA INDEX NAME)

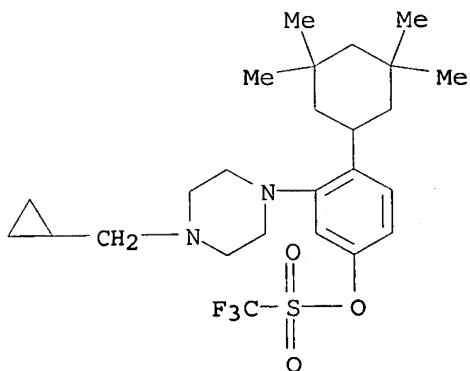
50613257



● HCl

RN 916316-53-5 CAPLUS

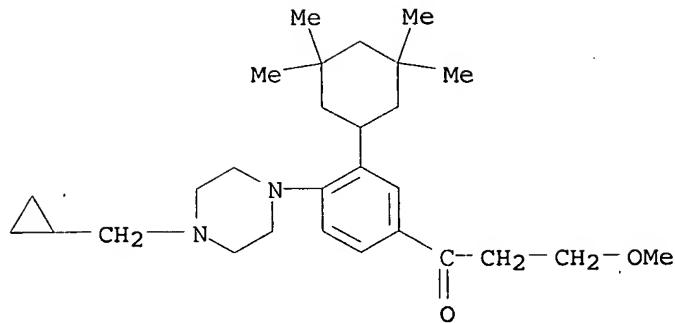
CN Methanesulfonic acid, 1,1,1-trifluoro-, 3-[4-(cyclopropylmethyl)-1-piperazinyl]-4-(3,3,5-tetramethylcyclohexyl)phenyl ester (CA INDEX NAME)



RN 916316-54-6 CAPLUS

CN 1-Propanone, 1-[4-[4-(cyclopropylmethyl)-1-piperazinyl]-3-(3,3,5,5-tetramethylcyclohexyl)phenyl]-3-methoxy-, hydrochloride (1:1) (CA INDEX NAME)

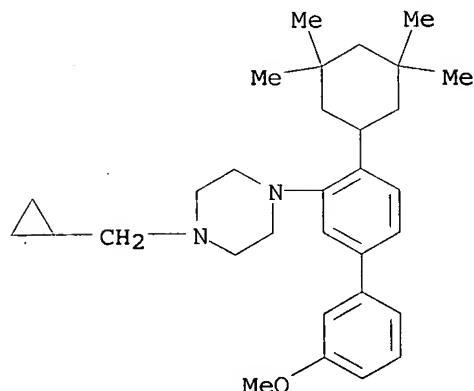
50613257



● HCl

RN 916316-61-5 CAPLUS

CN Piperazine, 1-(cyclopropylmethyl)-4-[3'-methoxy-4-(3,3,5,5-tetramethylcyclohexyl)[1,1'-biphenyl]-3-yl]-, hydrochloride (1:1) (CA INDEX NAME)

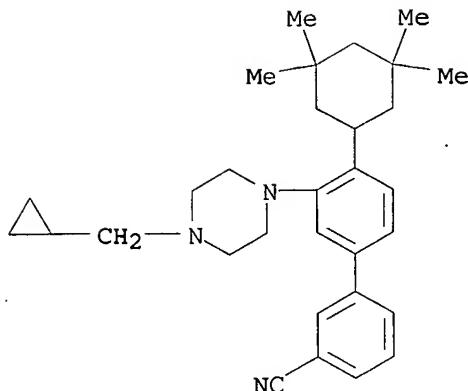


● HCl

RN 916316-63-7 CAPLUS

CN [1,1'-Biphenyl]-3-carbonitrile, 3'-[4-(cyclopropylmethyl)-1-piperazinyl]-4'-(3,3,5,5-tetramethylcyclohexyl)-, hydrochloride (1:1) (CA INDEX NAME)

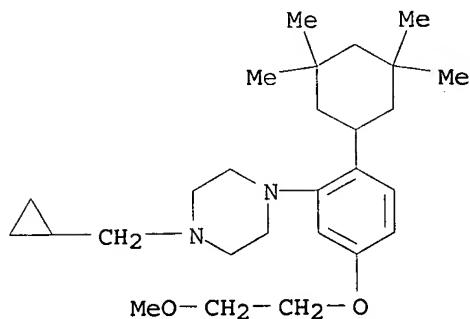
50613257



● HCl

RN 916316-65-9 CAPLUS

CN Piperazine, 1-(cyclopropylmethyl)-4-[5-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

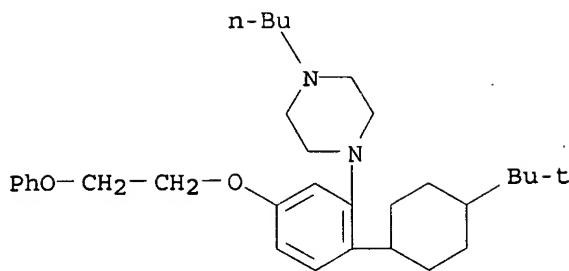


● HCl

RN 916316-67-1 CAPLUS

CN Piperazine, 1-butyl-4-[2-[4-(1,1-dimethylethyl)cyclohexyl]-5-(2-phenoxyethoxy)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

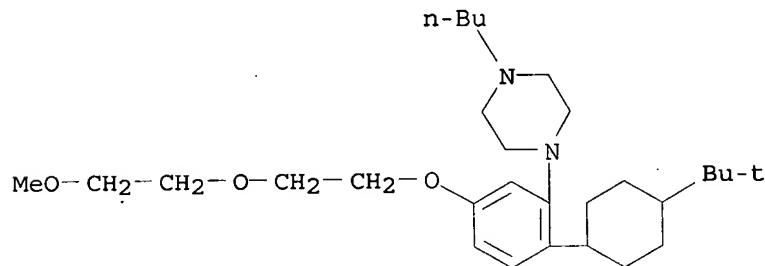
50613257



● HCl

RN 916316-68-2 CAPLUS

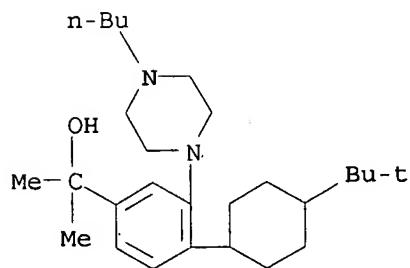
CN Piperazine, 1-butyl-4-[2-[4-(1,1-dimethylethyl)cyclohexyl]-5-[2-(2-methoxyethoxy)ethoxy]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 916316-69-3 CAPLUS

CN Benzenemethanol, 3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]-alpha,alpha-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)

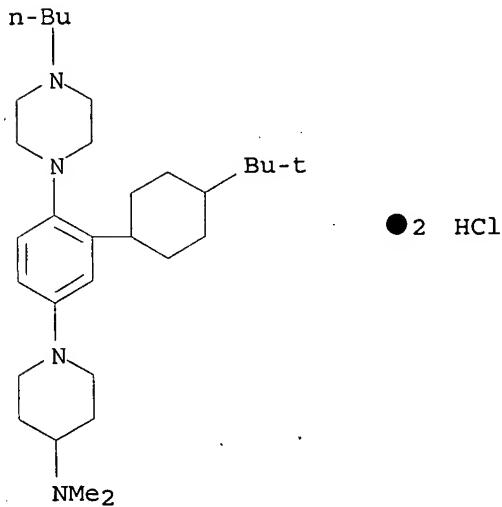


● HCl

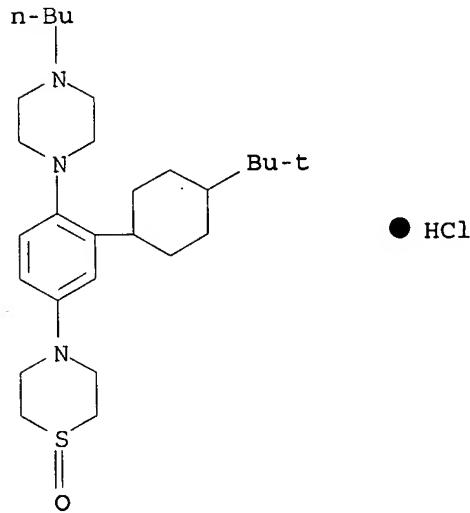
Erich Leeser

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RN 916316-70-6 CAPLUS
CN 4-Piperidinamine, 1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-N,N-dimethyl-, hydrochloride (1:2) (CA INDEX NAME)

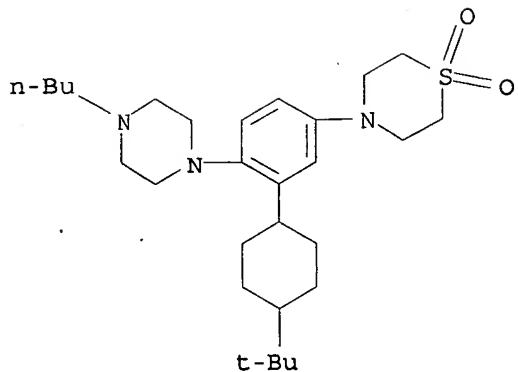


RN 916316-71-7 CAPLUS
CN Thiomorpholine, 4-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-, 1-oxide, hydrochloride (1:1) (CA INDEX NAME)



RN 916316-72-8 CAPLUS
CN Thiomorpholine, 4-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-, 1,1-dioxide, hydrochloride (1:1) (CA INDEX NAME)

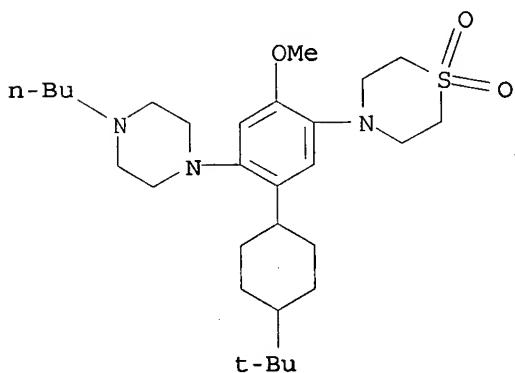
50613257



● HCl

RN 916316-73-9 CAPLUS

CN Thiomorpholine, 4-[4-(4-butyl-1-piperazinyl)-5-[4-(1,1-dimethylethyl)cyclohexyl]-2-methoxyphenyl]-, 1,1-dioxide, hydrochloride (1:1) (CA INDEX NAME)



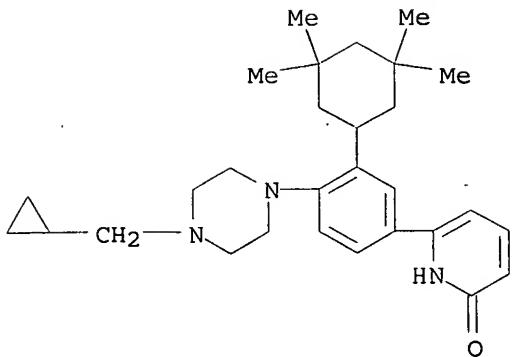
● HCl

RN 916316-74-0 CAPLUS

CN 2(1H)-Pyridinone, 6-[4-[4-(cyclopropylmethyl)-1-piperazinyl]-3-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

Erich Leeser

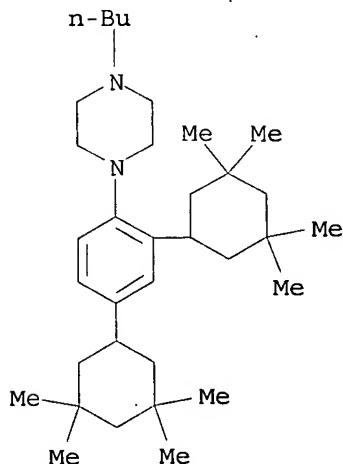
50613257



● HCl

RN 916316-75-1 CAPLUS

CN Piperazine, 1-[2,4-bis(3,3,5,5-tetramethylcyclohexyl)phenyl]-4-butyl-, hydrochloride (1:1) (CA INDEX NAME)

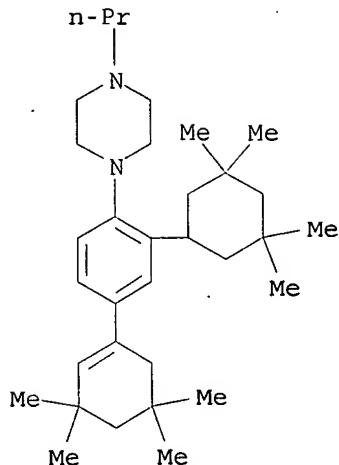


● HCl

RN 916316-76-2 CAPLUS

CN Piperazine, 1-propyl-4-[4-(3,3,5,5-tetramethyl-1-cyclohexen-1-yl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

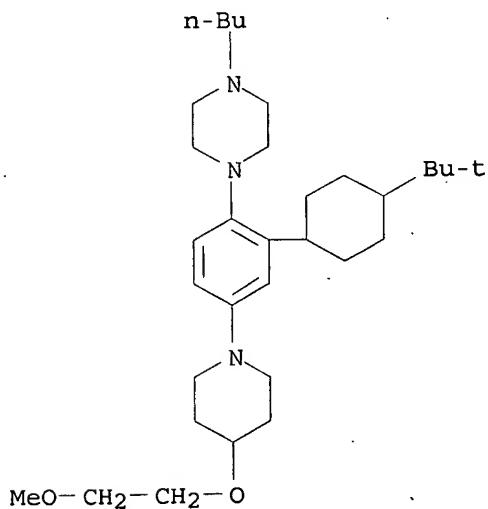
50613257



● HCl

RN 916316-81-9 CAPLUS

CN Piperazine, 1-butyl-4-[2-[4-(1,1-dimethylethyl)cyclohexyl]-4-[4-(2-methoxyethoxy)-1-piperidinyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)



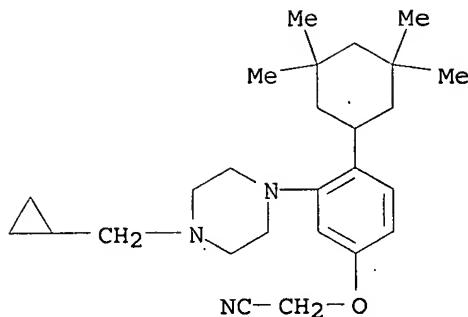
● HCl

RN 916316-82-0 CAPLUS

CN Acetonitrile, 2-[3-[4-(cyclopropylmethyl)-1-piperazinyl]-4-(3,3,5,5-tetramethylcyclohexyl)phenoxy]-, hydrochloride (1:1) (CA INDEX NAME)

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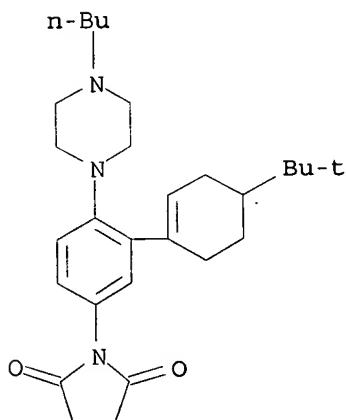
50613257



● HCl

RN 916316-83-1 CAPLUS

CN 2,5-Pyrrolidinedione, 1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)-1-cyclohexen-1-yl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

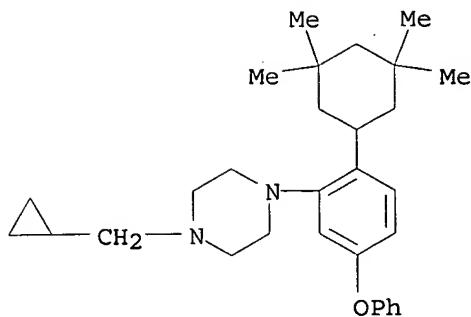


● HCl

RN 916316-84-2 CAPLUS

CN Piperazine, 1-(cyclopropylmethyl)-4-[5-phenoxy-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

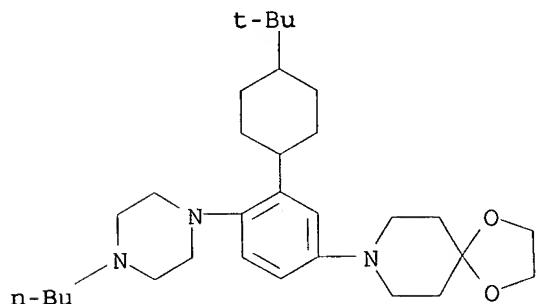
50613257



● HCl

RN 916316-85-3 CAPLUS

CN 1,4-Dioxa-8-azaspiro[4.5]decane, 8-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

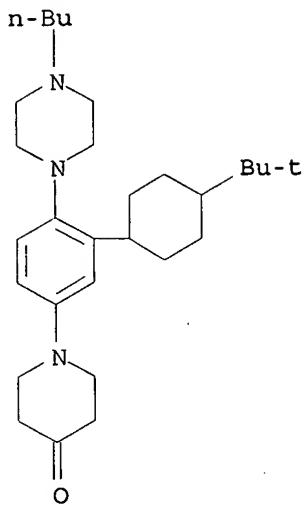


● HCl

RN 916316-86-4 CAPLUS

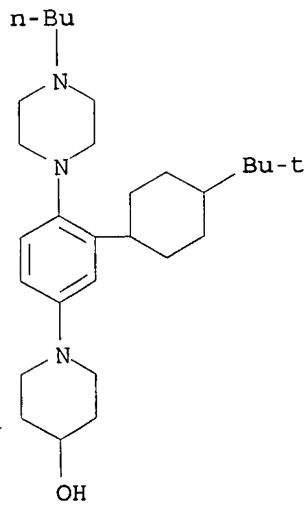
CN 4-Piperidinone, 1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]- (CA INDEX NAME)

50613257



RN 916316-87-5 CAPLUS

CN 4-Piperidinol, 1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)



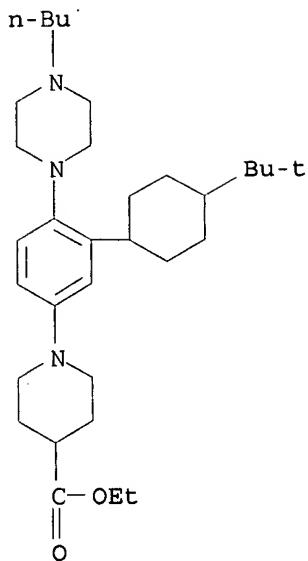
● HCl

RN 916316-88-6 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-, ethyl ester, hydrochloride (1:1) (CA INDEX NAME)

Erich Leeser

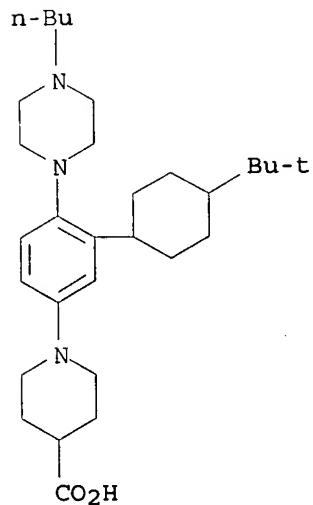
50613257



● HCl

RN 916316-89-7 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

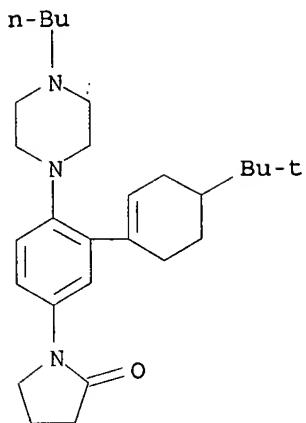


● HCl

RN 916316-91-1 CAPLUS

CN 2-Pyrrolidinone, 1-[4-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)-1-cyclohexen-1-yl]phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

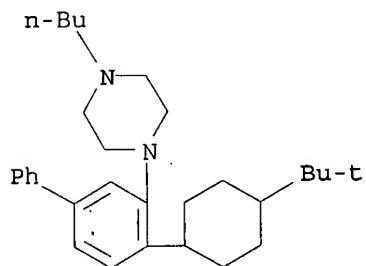
50613257



● HCl

RN 916316-94-4 CAPLUS

CN Piperazine, 1-butyl-4-[4-[4-(1,1-dimethylethyl)cyclohexyl][1,1'-biphenyl]-3-yl]-, hydrochloride (1:1) (CA INDEX NAME)

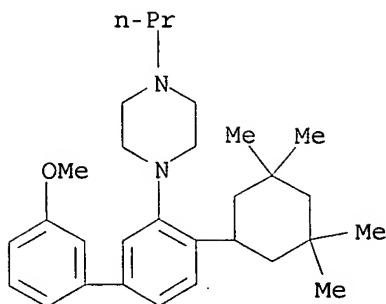


● HCl

RN 916316-95-5 CAPLUS

CN Piperazine, 1-[3'-methoxy-4-(3,3,5,5-tetramethylcyclohexyl)[1,1'-biphenyl]-3-yl]-4-propyl-, hydrochloride (1:1) (CA INDEX NAME)

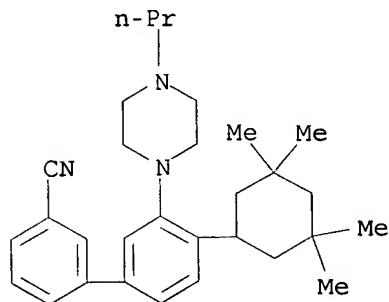
50613257



● HCl

RN 916316-96-6 CAPLUS

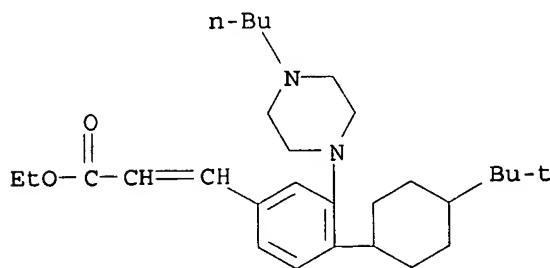
CN [1,1'-Biphenyl]-3-carbonitrile, 3'-(4-propyl-1-piperazinyl)-4'-(3,3,5,5-tetramethylcyclohexyl)-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 916316-97-7 CAPLUS

CN 2-Propenoic acid, 3-[3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]-, ethyl ester, hydrochloride (1:1) (CA INDEX NAME)

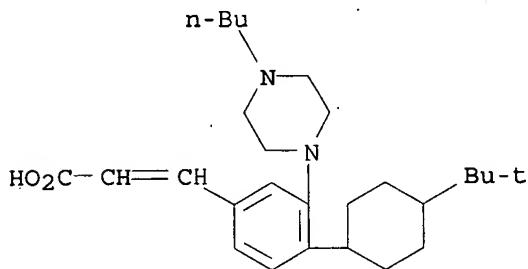


● HCl

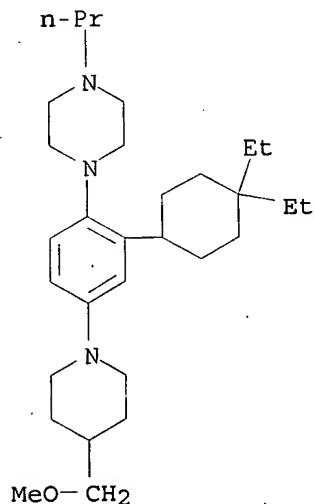
Erich Leeser

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RN 916316-98-8 CAPLUS
CN 2-Propenoic acid, 3-[3-(4-butyl-1-piperazinyl)-4-[4-(1,1-dimethylethyl)cyclohexyl]phenyl]- (CA INDEX NAME)

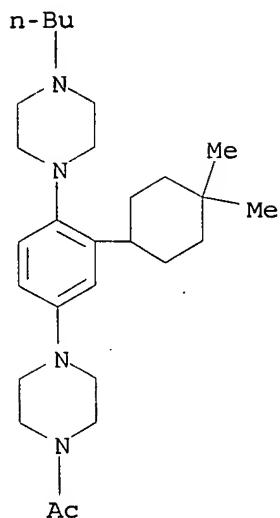


RN 916317-03-8 CAPLUS
CN Piperazine, 1-[2-(4,4-diethylcyclohexyl)-4-[4-(methoxymethyl)-1-piperidinyl]phenyl]-4-propyl- (CA INDEX NAME)



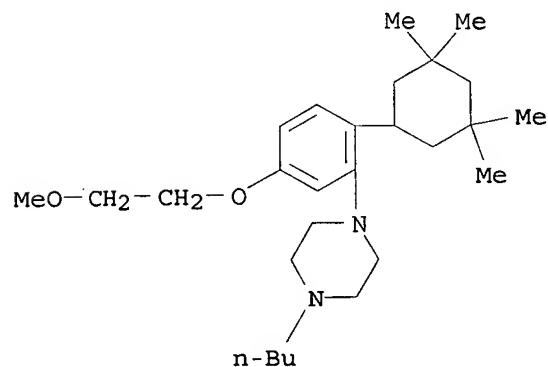
RN 916317-05-0 CAPLUS
CN Ethanone, 1-[4-[4-(4-butyl-1-piperazinyl)-3-(4,4-dimethylcyclohexyl)phenyl]-1-piperazinyl]- (CA INDEX NAME)

50613257



RN 916317-32-3 CAPLUS

CN Piperazine, 1-butyl-4-[5-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]- (CA INDEX NAME)

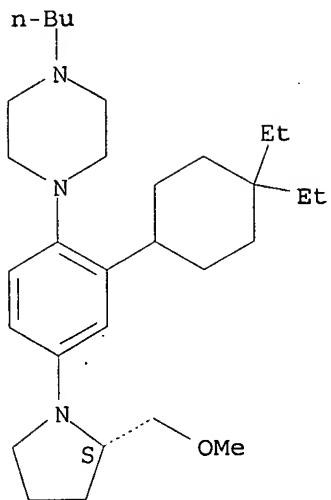


RN 916317-33-4 CAPLUS

CN Piperazine, 1-butyl-4-[2-(4,4-diethylcyclohexyl)-4-[(2S)-2-(methoxymethyl)-1-pyrrolidinyl]phenyl]- (CA INDEX NAME)

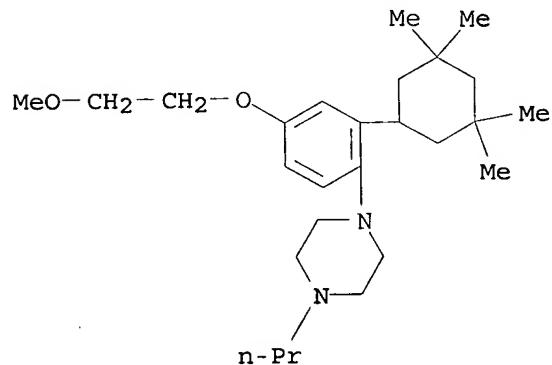
Absolute stereochemistry.

50613257



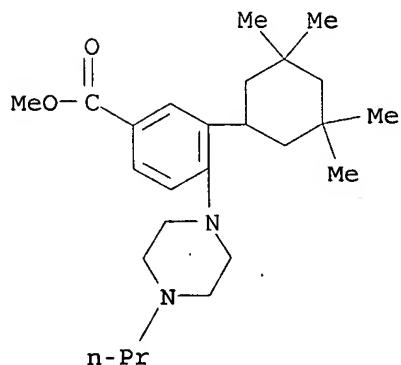
RN 916317-39-0 CAPLUS

CN Piperazine, 1-[4-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-4-propyl- (CA INDEX NAME)



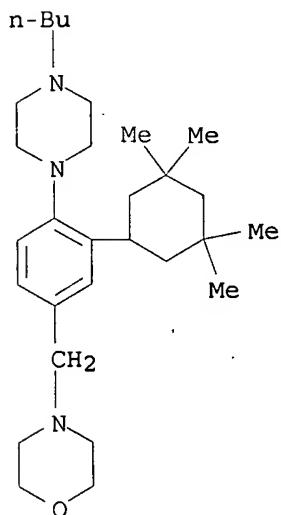
RN 916317-52-7 CAPLUS

CN Benzoic acid, 4-(4-propyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)-, methyl ester (CA INDEX NAME)

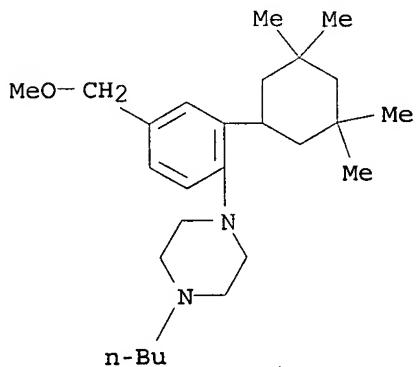


50613257

RN 916317-55-0 CAPLUS
CN Morpholine, 4-[4-(4-butyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)phenyl]methyl- (CA INDEX NAME)

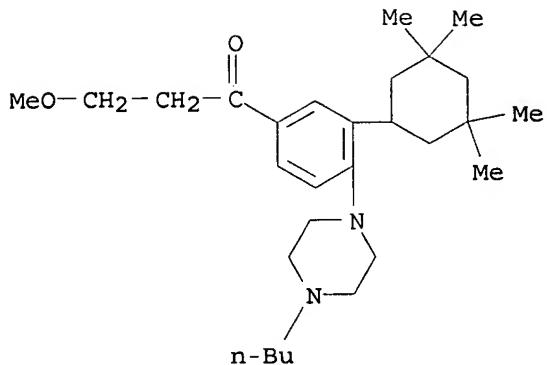


RN 916317-56-1 CAPLUS
CN Piperazine, 1-butyl-4-[4-(methoxymethyl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]- (CA INDEX NAME)



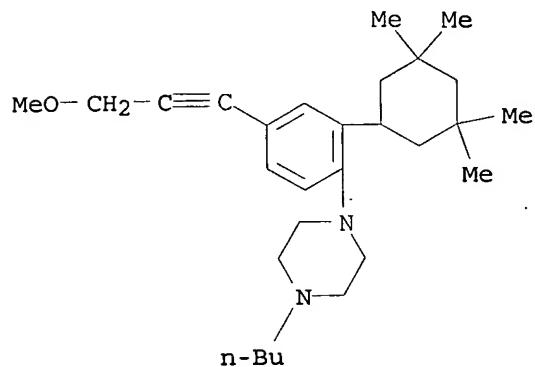
RN 916317-61-8 CAPLUS
CN 1-Propanone, 1-[4-(4-butyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)phenyl]-3-methoxy- (CA INDEX NAME)

50613257



RN 916317-62-9 CAPLUS

CN Piperazine, 1-butyl-4-[4-(3-methoxy-1-propyn-1-yl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]- (CA INDEX NAME)



IT 916317-02-7P 916317-09-4P 916317-11-8P

916317-13-0P 916317-14-1P 916317-28-7P

916317-30-1P 916317-35-6P 916317-36-7P

916317-48-1P 916317-49-2P 916317-51-6P

916317-53-8P 916317-54-9P 916317-57-2P

916317-58-3P

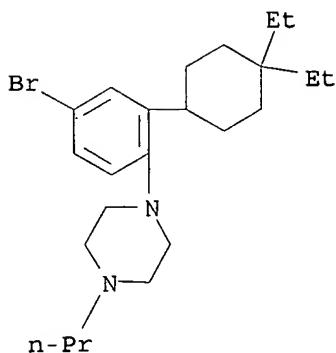
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 1,2-di(cyclic) substituted benzene compds. as cell adhesion and cell infiltration inhibitors)

RN 916317-02-7 CAPLUS

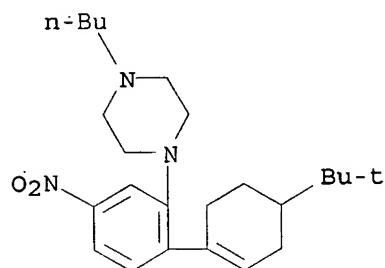
CN Piperazine, 1-[4-bromo-2-(4,4-diethylcyclohexyl)phenyl]-4-propyl- (CA INDEX NAME)

50613257



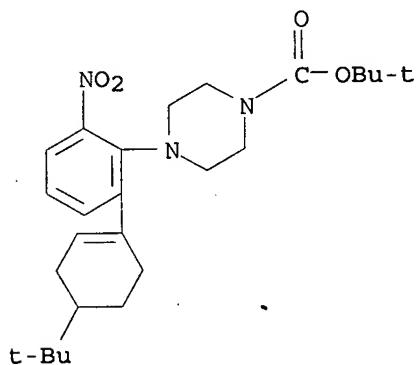
RN 916317-09-4 CAPLUS

CN Piperazine, 1-butyl-4-[2-[4-(1,1-dimethylethyl)-1-cyclohexen-1-yl]-5-nitrophenyl]- (CA INDEX NAME)



RN 916317-11-8 CAPLUS

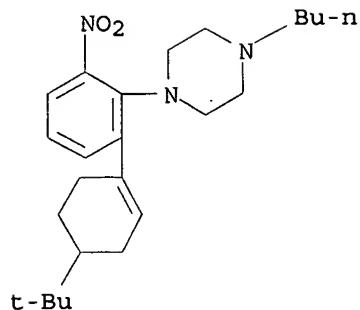
CN 1-Piperazinecarboxylic acid, 4-[2-[4-(1,1-dimethylethyl)-1-cyclohexen-1-yl]-6-nitrophenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 916317-13-0 CAPLUS

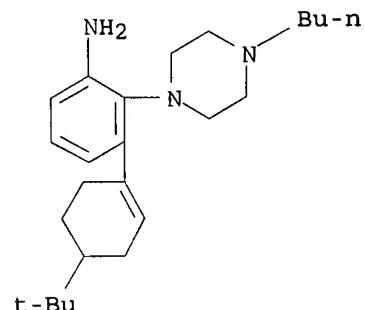
CN Piperazine, 1-butyl-4-[2-[4-(1,1-dimethylethyl)-1-cyclohexen-1-yl]-6-nitrophenyl]- (CA INDEX NAME)

50613257



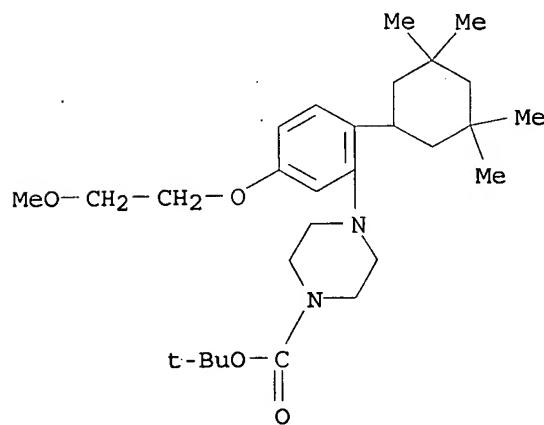
RN 916317-14-1 CAPLUS

CN Benzenamine, 2-(4-butyl-1-piperazinyl)-3-[4-(1,1-dimethylethyl)-1-cyclohexen-1-yl]- (CA INDEX NAME)



RN 916317-28-7 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[5-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



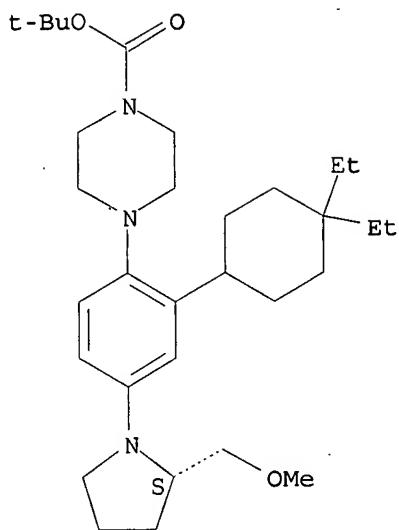
RN 916317-30-1 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[2-(4,4-diethylcyclohexyl)-4-[(2S)-2-(methoxymethyl)-1-pyrrolidinyl]phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry.

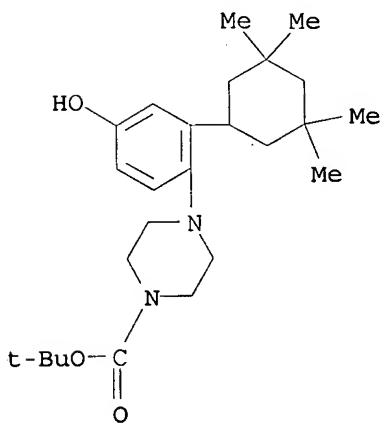
Erich Leeser

50613257



RN 916317-35-6 CAPLUS

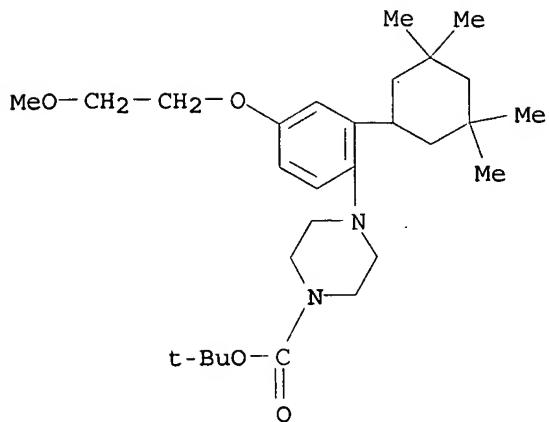
CN 1-Piperazinecarboxylic acid, 4-[4-hydroxy-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 916317-36-7 CAPLUS

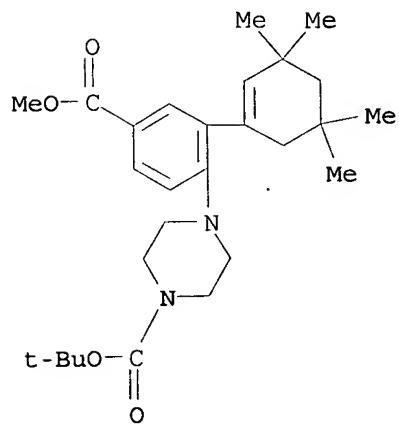
CN 1-Piperazinecarboxylic acid, 4-[4-(2-methoxyethoxy)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

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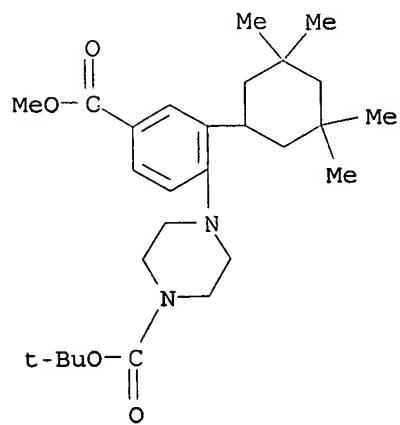
RN 916317-48-1 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-(methoxycarbonyl)-2-(3,3,5,5-tetramethyl-1-cyclohexen-1-yl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 916317-49-2 CAPLUS

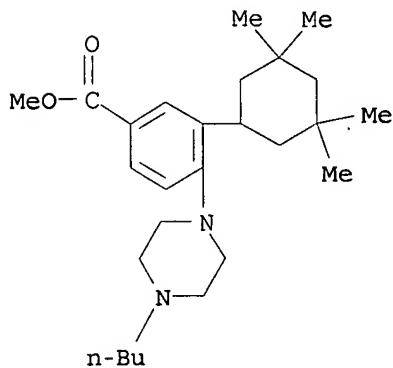
CN 1-Piperazinecarboxylic acid, 4-[4-(methoxycarbonyl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



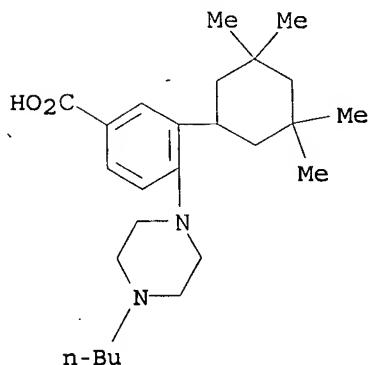
Erich Leeser

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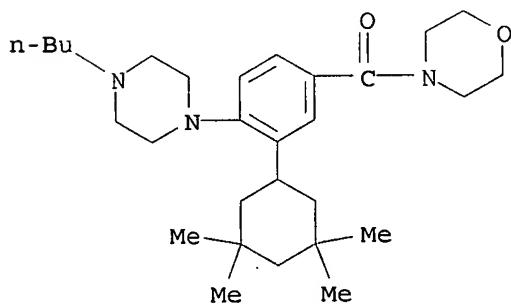
RN 916317-51-6 CAPLUS
CN Benzoic acid, 4-(4-butyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)-
, methyl ester (CA INDEX NAME)



RN 916317-53-8 CAPLUS
CN Benzoic acid, 4-(4-butyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)-
(CA INDEX NAME)



RN 916317-54-9 CAPLUS
CN Methanone, [4-(4-butyl-1-piperazinyl)-3-(3,3,5,5-
tetramethylcyclohexyl)phenyl]-4-morpholinyl- (CA INDEX NAME)

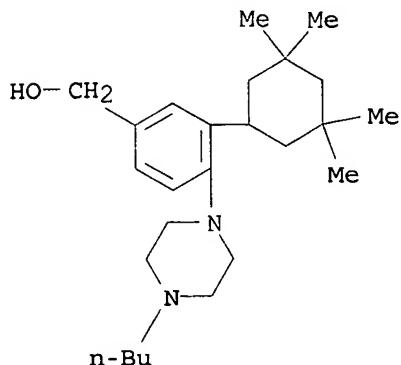


RN 916317-57-2 CAPLUS

Erich Leeser

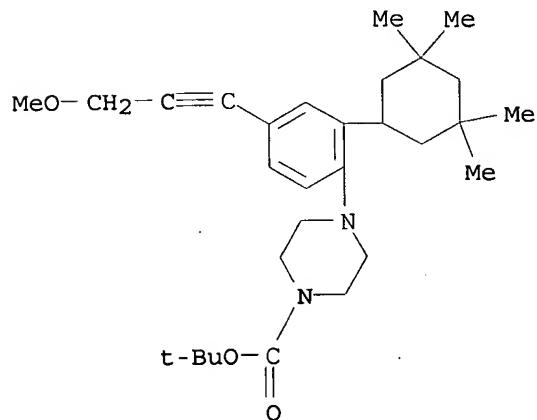
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CN Benzenemethanol, 4-(4-butyl-1-piperazinyl)-3-(3,3,5,5-tetramethylcyclohexyl)- (CA INDEX NAME)



RN 916317-58-3 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-(3-methoxy-1-propyn-1-yl)-2-(3,3,5,5-tetramethylcyclohexyl)phenyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1263063 CAPLUS

DOCUMENT NUMBER: 146:183987

TITLE: A sterically bulky cyclic thiourea as an efficient ligand for palladium-catalyzed aerobic oxidation of alcohols

AUTHOR(S): Yang, Min; Yip, Kai-Tai; Pan, Jie-Hui; Chen, Ying-Chun; Zhu, Nian-Yong; Yang, Dan

CORPORATE SOURCE: Department of Chemistry, The University of Hong Kong, Hong Kong, Peop. Rep. China

SOURCE: Synlett (2006), (18), 3057-3060
CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 1,3-Bis(2,5-di-tert-butylphenyl)-2-imidazolidinethione was demonstrated as an efficient ligand in palladium-catalyzed oxidation of alcs. using mol.

oxygen as an oxidant. This new catalyst system was applied to a wide variety of substrates such as benzylic alcs., aliphatic secondary alcs., and allylic alcs., producing the corresponding carbonyl compds. in good to excellent yields.

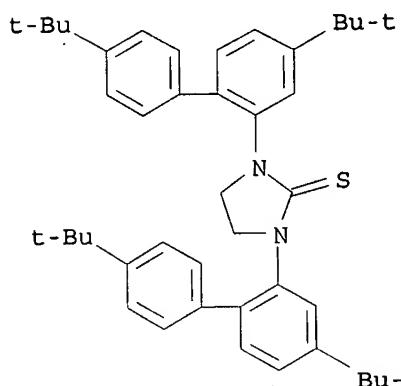
IT 921197-59-3P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);
USES (Uses)

((tert-butylphenyl)imidazolidinethione as ligand for
palladium-catalyzed aerobic oxidation of alcs.)

RN 921197-59-3 CAPLUS

CN 2-Imidazolidinethione, 1,3-bis[4,4'-bis(1,1-dimethylethyl)[1,1'-biphenyl]-2-yl] - (CA INDEX NAME)



REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1209633 CAPLUS

DOCUMENT NUMBER: 146:142273

TITLE: Lewis Base Activation of Grignard Reagents with N-Heterocyclic Carbenes. Cu-Free Catalytic Enantioselective Additions to γ -Chloro- α,β -Unsaturated Esters

AUTHOR(S): Lee, Yunmi; Hoveyda, Amir H.

CORPORATE SOURCE: Department of Chemistry, Merkert Chemistry Center,
Boston College, Chestnut Hill, MA, 02467, USASOURCE: Journal of the American Chemical Society (2006),
128(49), 15604-15605

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Direct activation of alkylmagnesium halides with a chiral bidentate N-heterocyclic carbene (NHC), formed in situ from the imidazolinium chloride precursor, is reported. The Cu-free catalytic asym. allylic alkylation of α -alkyl- γ -chloro- α,β -unsatd. esters with alkyl-based Grignard reagents is promoted in the presence of 5-10 mol % of the chiral imidazolinium salt to afford synthetically versatile β,γ -unsatd. esters. Products bear all-carbon quaternary stereogenic centers generated in 3.5-13.3:1 regioselectivity, 63-98% ee, and in up to 80% isolated yield of the SN2' product. The in-situ-generated chiral NHC promotes enantioselectivity while altering

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the reactivity of the Grignard reagents: there is only .apprx.30% conversion and <2% allylic alkylation in the absence of chiral carbene.

IT 919087-63-1P 919087-64-2P

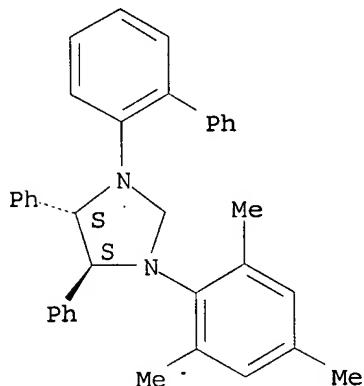
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(asym. allylic alkylation of α -alkyl- γ -chloro- α,β -unsatd. esters with Grignard reagents and a chiral imidazolium catalyst)

RN 919087-63-1 CAPLUS

CN 1H-Imidazolium, 1-[1,1'-biphenyl]-2-yl-4,5-dihydro-4,5-diphenyl-3-(2,4,6-trimethylphenyl)-, chloride (1:1), (4S,5S)- (CA INDEX NAME)

Absolute stereochemistry.



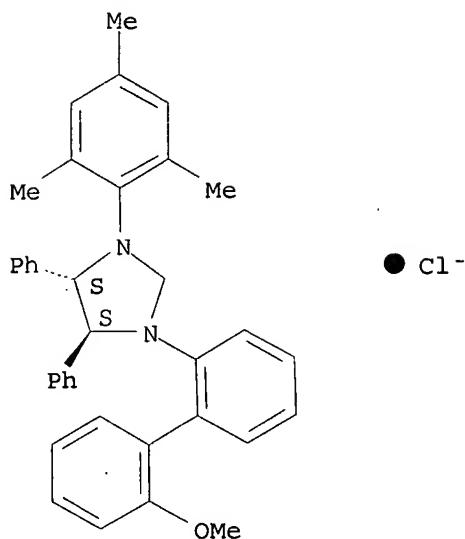
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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 919087-64-2 CAPLUS

CN 1H-Imidazolium, 4,5-dihydro-1-(2'-methoxy[1,1'-biphenyl]-2-yl)-4,5-diphenyl-3-(2,4,6-trimethylphenyl)-, chloride (1:1), (4S,5S)- (CA INDEX NAME)

Absolute stereochemistry.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:840567 CAPLUS

DOCUMENT NUMBER: 145:397590

TITLE: Activity of Nitrogen-Containing and Non-Nitrogen-Containing Bisphosphonates on Tumor Cell Lines

AUTHOR(S): Zhang, Yonghui; Leon, Annette; Song, Yongcheng; Studer, Danielle; Haase, Christa; Koscielski, Lukasz A.; Oldfield, Eric

CORPORATE SOURCE: Department of Chemistry, University of Illinois at Urbana-Champaign, Urbana, IL, 61801, USA

SOURCE: Journal of Medicinal Chemistry (2006), 49(19), 5804-5814

PUBLISHER: CODEN: JMCMAR; ISSN: 0022-2623
American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 145:397590

AB Arylethyldene-, pyridiniummethyldene- and 1-hydroxyethyldene-bis-phosphonates were prepared by bis-phosphonylation of the corresponding carboxylic acids, alkylation of methylenebis(phosphonate) by substituted benzyl halides or addition of vinylidenebis(phosphonates) with substituted pyridines. The activity of the prepared bis-phosphonates in inhibiting the growth of three human tumor cell lines, MCF-7 (breast), NCI-H460 (lung), and SF-268 (CNS) was evaluated. The first series of compds. consisted of 49 2-(pyridinio)ethylidene-1,1-bisphosphonates the most active species being a tetrakis-pivaloyloxymethyl (POM) ester, having an average IC₅₀ of 6.8 μM. The second series of compds. consisted of nine 2-(terphenylyl) ethyldene-1,1-bisphosphonates, the most active species also being a POM ester, having an IC₅₀ of 2.2 μM. The third series of compds. consisted of seven halogen- or cyano-substituted 2-phenylethyldene-1,1-bisphosphonates, the most active species again being a POM ester, having an IC₅₀ of 500 nM. The prepared bisphosphonate esters can have potent activity against a variety of tumor cell lines, with the most active

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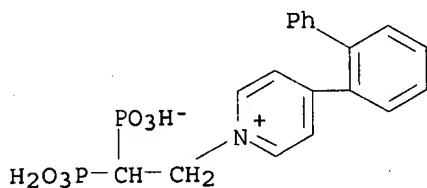
terphenyl- and halophenyl-containing species having IC₅₀ values
.apprx.10-40+ lower than the most potent com. available
bisphosphonates.

IT 911496-93-0P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
BIOL (Biological study); PREP (Preparation)
(preparation of pyridinio-, biphenyl- and 1-hydroxyethylidene
bis-phosphonates as growth inhibitory agents for human tumor cell
lines)

RN 911496-93-0 CAPLUS

CN Pyridinium, 4-[1,1'-biphenyl]-2-yl-1-(2,2-diphosphonoethyl)-, inner salt
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:753456 CAPLUS

DOCUMENT NUMBER: 145:356907

TITLE: Rearrangement of N-Heterocyclic Carbenes Involving Heterocycle Cleavage

AUTHOR(S): Waltman, Andrew W.; Ritter, Tobias; Grubbs, Robert H.

CORPORATE SOURCE: Division of Chemistry and Chemical Engineering,
California Institute of Technology, Pasadena, CA,
91125, USA

SOURCE: Organometallics (2006), 25(18), 4238-4239

CODEN: ORGND7; ISSN: 0276-7333

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In two similar but unrelated cases, a novel type of ring-opening reaction of N-heterocyclic carbenes (NHCs) was observed. These compds. may represent a general class of hitherto unknown decomposition products of NHCs. Thus, ring-expansion reaction of 1-(2,6-diisopropylphenyl)-3-(2-hydroxy-3-(adamant-1-yl)-5-methylphenyl)-4,5-dihydroimidazolium chloride with potassium hexamethyldisilazide in THF followed by treatment with NiClPh(PPh₃)₂ in THF gave 59% N-(2,6-diisopropylphenyl)-N-benzylidene-N'-(2-hydroxy-3-(adamant-1-yl)-5-methylphenyl)ethylenediamine triphenylphosphine nickel(II) complex (crystal structure).

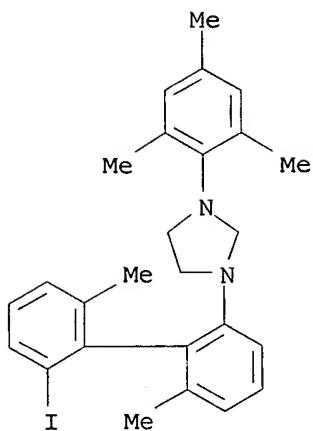
IT 910482-27-8P 910482-28-9P 910482-33-6P

910482-34-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(rearrangement of N-heterocyclic carbenes involving heterocycle cleavage or ring-expansion and structural characterization of products)

RN 910482-27-8 CAPLUS

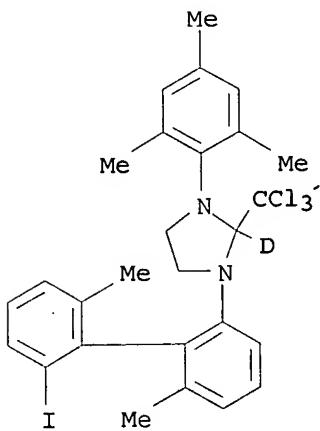
CN 1H-Imidazolium, 4,5-dihydro-1-(2'-iodo-6,6'-dimethyl[1,1'-biphenyl]-2-yl)-3-(2,4,6-trimethylphenyl)-, chloride (9CI) (CA INDEX NAME)

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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 910482-28-9 CAPLUS

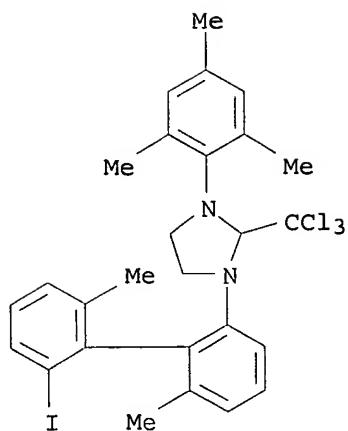
CN Imidazolidine-2-d, 1-(2'-iodo-6,6'-dimethyl[1,1'-biphenyl]-2-yl)-2-(trichloromethyl)-3-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



RN 910482-33-6 CAPLUS

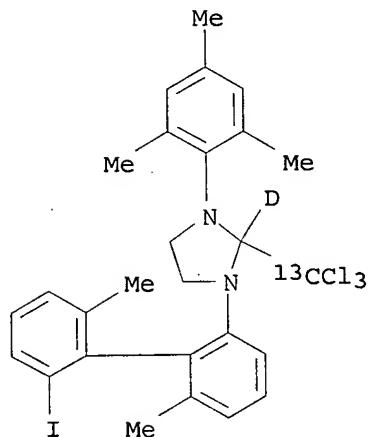
CN Imidazolidine, 1-(2'-iodo-6,6'-dimethyl[1,1'-biphenyl]-2-yl)-2-(trichloromethyl)-3-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

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RN 910482-34-7 CAPLUS

CN Imidazolidine-2-d, 1-(2'-iodo-6,6'-dimethyl[1,1'-biphenyl]-2-yl)-2-(trichloromethyl-13C)-3-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

18

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT